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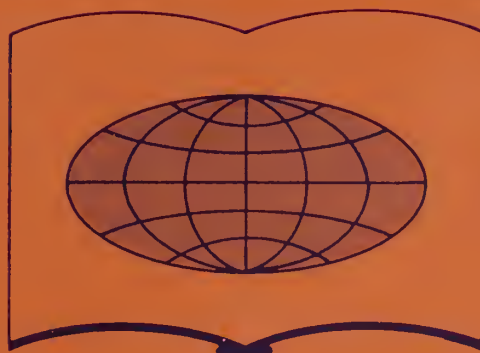
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# Pesticides DOCUMENTATION BULLETIN

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1969  
DOCUMENTATION BULLETIN



Volume 5      Number 3  
January 31, 1969



*Use Pesticides Safely*

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U.S. DEPARTMENT OF AGRICULTURE



# PESTICIDES DOCUMENTATION BULLETIN

Volume 5  
January 31, 1969  
Number 3

A Bi-Weekly Publication of U.S. Department of Agriculture

## OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

## FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

- 10 Entomology
- 20 Crop Protection
- 30 Livestock Protection
- 40 Commodity Protection
- 50 Environmental Contamination
- 55 Residues
- 60 Toxicology
- 65 Plant Physiology & Biochemistry
- 70 Chemistry
- 80 Engineering
- 90 Industry

**Citations:** Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

**Subject Index:** Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

**Biographical Index:** Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

**Author Index:** Names of personal authors are arranged alphabetically, followed by accession numbers of pertinent citations.

**Organizational Index:** Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

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In addition to the citations contained in the Bulletin, the Pesticides Information Center maintains two other files, the INTREDIS Register and the Herbicides Data File.

The INTREDIS Register is a computer data bank in the field of forest pathology. It contains title and author references to abstracted articles including subject, country, host plant genus or species, organisms causing the diseases, abstracting journal and year of publication. The computer search uses boolean parameters in any combination of elements listed.

The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

- Compound Tested
- Company furnishing the compound
- Author or Investigator
- Test Sponsor
- Date
- Location
- Mode of Application
- Rates of Application
- Soil Types
- Carriers
- Crops or Weeds tested with phytotoxicity ratings
- Associated documentation

Note: Items subject to proprietary restriction will be suppressed when appropriate.

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## ACKNOWLEDGMENT

The Pesticides Information Center, National Agricultural Library, gratefully acknowledges the cooperation and assistance of the Department of Defense; Health, Education, and Welfare; and Interior; the Federal Committee on Pest Control, and state and industrial organizations in the development of the Center and preparation of this Bulletin. Special thanks are expressed to the Federal Committee on Pest Control for its suggestions and support. We hope the Bulletin will serve as an example of the effectiveness of interdepartmental cooperation and the speed with which effective services can be developed through a coordinated and cooperative interdepartmental effort.

Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

PLEASE GIVE COMPLETE BIBLIOGRAPHIC INFORMATION AS IT APPEARS IN THIS PUBLICATION FOR EACH ITEM REQUESTED.

This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

**CAUTION:** Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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## ENTOMOLOGY

1202-69  
ON THE COLLECTION AND PREPARATION  
OF BIRD- AND MAMMAL PARASITES (MAL-  
LOPHAGA). (GE )

W Eichler

*Entomol Ber* 9-13

1967 QL461.E54

Anoplura, Birds, Entomology, Insect collecting  
equipment, Insect collection, Mallophaga, Mam-  
mals, Parasitism, Parasitology.

1203-69

BIBLIOGRAPHY OF THE FAUNISTIC LITERA-  
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AREA OF THE GERMAN DEMOCRATIC  
REPUBLIC. II. (GE )

G Fricse

*Entomol Ber* 113-120 REF

1966 QL461.E54

Bibliography, East Germany, Microlepidoptera,  
Zoogeography.

1204-69

POSSIBILITIES AND LIMITATIONS IN THE  
USE OF BARBER TRAPS ON RIVER SHORES.  
(GE )

B Messner

*Entomol Ber* 93-100 MAP REF

1967 QL461.E54

Arthropoda, Insect collecting equipment, Insect  
traps, Larvae.

1205-69

BOLL WEEVIL; ANTHONOMUS GRANDIS  
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TIONS, 1961-65.

L L Mitlin N Mitlin

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Agriculture, Anthonomus grandis, Entomology, In-  
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ING SYSTEM FOR BIOLOGICAL RESEARCH.  
J P Reinecke

*Tex Rep Biol Med* 25(3,FALL):334-341

1967 448.8 T31

Entomology, Information retrieval systems,  
Methodology, Photography.

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1207-69

DESCRIPTION OF A NEW GENUS OF  
LASIOCAMPIDAE AND OF ITS HOLOTYPE.  
(LEP. LASIOC. GONOMETINAE). (FR )

Y de Lajonquiere

*Soc Entomol France Bull* 73(3/4,MAR-APR):68-  
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1968 420 F84B

Insect anatomy, Insect identification, Insect tax-  
onomy, Lasiocampidae, Zoogeography.

1208-69

MIDDLE GERMAN LEAF MINER FINDS. PART  
2. (GE )

H Ahr

*Entomol Ber* 77-88

1966 QL461.E54

Agromyzidae, Insect identification, Leaf miners,  
Plant hosts, Zoogeography.

1209-69

A NEW SPECIES OF NEOTYLOS HENDEL,  
1932 (DIPTERA, MICROPEZIDAE). (POR )

L P de Albuquerque

*Rev Brasil Biol* 28(2):12-133

Jun 1968 442.8 R326

Insect taxonomy, Micropezidae. English abstract

1210-69

RECORDS AND DESCRIPTIONS OF TIPU-  
LIDAE FROM SOUTH AMERICA (DIPTERA).  
II.

C P Alexander

*Sao Paulo Dep Zool Papeis Avulsos* 21(8):87-97

1968 410.9 SA63

Diptera, Insect anatomy, Insect identification, In-  
sect taxonomy, Tipulidae. 16 new species of tipu-  
lidae were recorded.

1211-69

NOTES ON THE BIOLOGY OF TWO CENTRAL  
AMERICAN PTINUS (COLEOPTERA:  
PTINIDAE) WITH A DESCRIPTION OF A NEW  
SPECIES.

R M Andrews

*Psyche* 74(3):191-202 REF

Sep 1967 421 P95

Insect biology, Insect taxonomy, Ptinus.

1212-69

A NEW PSEUDANOPHTHALMUS FROM AN  
EPIGEAN ENVIRONMENT IN WEST VIRGINIA  
(COLEOPTERA: CARABIDAE).

T C Barr

*Psyche* 74(2):166-172

Jun 1967 421 P95

Carabidae, Habitats, Insect taxonomy.

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FURTHER INVESTIGATIONS INTO THE  
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STAPHYLINIDAE). (GE )

G Benick

*Norsk Entomol Tidsskr* 15(2):83-89 REF

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Catalogs, Insect taxonomy, Staphylinidae.

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PEROMYSCOPSYLLA HAMIFER HAMIFER  
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STATE.

A H Benton

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Insect taxonomy, Rodents, Siphonaptera.

1215-69

NEW TAXONOMIC POSITION OF AN  
AFRICAN CHRYSOMELIDE. (COL.). (FR )

N Berti

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1968 420 F84B

Chrysomelidae, Insect taxonomy, Zoogeography.

1216-69

THE FRESH-WATER MITES FROM A SMALL  
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A J Besseling

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man abstract

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HYDRACHNELLA OF THE NETHERLANDS  
XLV. (DU )

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Hydrachnellae, Insect taxonomy. German abstract.

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HIGH LOCALIZED BIRD MORTALITY AS A  
FUNCTION OF HIGH INSECT POPULATIONS.

H L Black C M White

*Great Basin Natur* 28(4):200

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Birds, Demography, Mortality, Vanessa cardui.

The high mortality of birds is correlated with the  
occurrence of large migrating populations of but-  
terflies (Vanessa cardui). The increase in deaths

of birds and insects by collision with high speed  
traffic on highways in Utah is discussed.

1219-69

MISCELLANEOUS STUDIES ON PHORID  
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T Borgmeier

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Jun 1968 442.8 R326

Insect taxonomy, Phoridae.

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A NEW STENOMESIUS (HYM., EULOPHIDAE)  
REARED FROM CERAMIDIA VIRIDIS IN  
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Z Bouček

*Entomophaga* 7(2):189-192

1962 421 EN835

Bananas, Ceramidia viridis, Eulophidae, Insect  
pests, Insect rearing, Insect taxonomy, Stenomesius  
ceramidia. French summary

1221-69

ANNOTATED LISTING OF WORKS ON  
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J Bourgogne

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21 Sep 1967 421 AL2

Insect taxonomy, Lepidoptera, Reviews, Zoogeog-  
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TUIDAE TRIFINAE. (FR )

C Boursin

*Entomops* (10):43-72

15 May 1968 QL461.E53

Apateinae, Insect taxonomy, Noctuidae, Zoogeog-  
raphy. For contribution no. 159 see Entomops  
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1223-69

SHORT NOTES ON COLEOPTERA VIII. (DU )

P J Brakman

*Entomol Ber* 28(6):108-114 REF

01 Jun 1968 420 N38B

Catalogs, Coleoptera, Insect ecology, Insect gcog-  
raphy, Zoogeography.

1224-69

TAXONOMIC NOTES ON THE LARVAE OF  
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A Brindlc

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Fcb 1969 421 EN8

Empididae, Insect taxonomy, Larvae.

1225-69

THE REVISION OF THE TRIBE CHALEPINI  
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CHALEPUS THUNBERG (COLEOPTERA,  
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J G Butte

*N Y Entomol Soc J* 76(2):117-133 MAP REF

Jun 1968 420 N48J

Chrysomelidae, Insect taxonomy, Zoogeography.

1226-69

DESCRIPTION OF LEPTOTHORAX MONJAU-  
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MICIDAE MYRMICINAE). (FR )

H Cagniat

*Soc Entomol France Bull* 73(3/4,MAR-APR):83-  
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1968 420 F84B

Formicidae, Insect anatomy, Insect biology, Insect  
identification, Insect taxonomy, Myrmicinae,  
Zoogeography.

**1227-69**  
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I Capuse

*Entomol Ber* 27(6):109-118

01 Jun 1967 420 N38B

Insect taxonomy, Tineidae, Zoogeography.

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STUDIES ON NORTH AMERICAN CARBONIFEROUS INSECTS. 5. PALAEOICTYOPTERA AND MEGASECPTERA FROM ILLINOIS AND TENNESSEE, WITH A DISCUSSION OF THE ORDER SYMPHYROPTEROIDEA.  
F M Carpenter

*Psyche* 74(1):58-84 REF

Mar 1967 421 P95

Insect geography, Insect taxonomy, Paleoen-tomology

**1229-69**  
NEOTROPICAL MIRIDAE. CII: ON THE GENUS LAMPSOPHORUS REUTER AND MABELIA KIRKALDY, WITH A DESCRIPTION OF A NEW SPECIES (HEMIPTERA). (POR )  
J C M Carvalho P S F Ferreira

*Rev Brasil Biol* 28(2):207-213

Jun 1968 442.8 R326

Insect taxonomy, Miridae, English abstract

**1230-69**  
SIX NEW SPECIES OF MITES OF THE GENUS AMBLYSEIUS (PHYTOSEIIDAE) FROM PAKISTAN.  
W M Chaudhri

*Acarologia* 10(4):550-562 REF

Dec 1968 434.8 AC1

Amblyseius, Insect taxonomy.

**1231-69**  
TWO NEW SPECIES OF THE GENUS OTIOTHOPS (ARANEAE, PALPIMANIDAE) FROM THE VIRGIN ISLANDS.  
A M Chickering

*Psyche* 74(3):203-207

Sep 1967 421 P95

Araneae, Insect taxonomy.

**1232-69**  
A NEW LOCALITY RECORD FOR IXODES WOODI BISHOPP (ACARINA: IXODIDAE).  
J C Cooney K L Hayes

*Entomol Soc Wash Proc* 70(4):383

Dec 1968 420 W27

Insect taxonomy, Ixodidae, Zoogeography.

**1233-69**  
OBSERVATIONS ON THE GENUS PHEROLIODES. I.-PHEROLIODES ROBLENSIS N. SP. (ACARINA, ORIBATEI). (FR )  
R Covarrubias

*Acarologia* 10(4):657-695 REF

Dec 1968 434.8 AC1

Insect morphology, Insect taxonomy, Oribatei, English abstract

**1234-69**  
ON THE TRUE IDENTITIES OF TUOBA AND NESOGEOPIHILUS (CHILOPODA: GEOPILOMORPHA: GEOPHILIDAE).  
R E Crabill

*Entomol Soc Wash Proc* 70(4):345

Dec 1968 420 W27

Chilopoda, Insect identification, Insect taxonomy.

**1235-69**  
ON THE TRUE IDENTITY OF CHOMATOPHILUS WITH DESCRIPTION OF A NEW SPECIES, AND WITH KEY AND CATALOGUE OF ALL SOGONID GENERA (CHILOPODA: GEOPILOMORPHA: SOGONIDAE).  
R E Crabill

*Entomol Soc Wash Proc* 70(4):323-331

Dec 1968 420 W27

Chilopoda, Insect identification, Insect taxonomy.

**1236-69**  
ANTHOCORIS LIMBATUS FIEBER (HEMIPTERA-HETEROPTERA: CIMICIDAE) IN YORKSHIRE.  
R Crossley

*Entomologist* (London) 101(1267):268

Dec 1968 421 EN8

**1237-69**  
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R Dahl

*Norsk Entomol Tidsskr* 15(1):19-27

1968 421 N812

Catalogs, Diptera, Insect ecology, Insect taxonomy, Littoral insects.

**1238-69**  
CONTRIBUTION TO THE FAUNA OF THE CONGO (BRAZZAVILLE). MISSION A. VIL-LIERS AND A. DESCARPENTRIES. LXXVII. ORTHOPTERA: PYRGOMORPHIDAE AND ACRIDIDAE. (FR )  
M Descamps M Donskoff

*Inst Fondamental Afr Noire Bull Ser A Sci Natur*

30(3):1198-1235

Jul 1968 515 D14

Acrididae, Catalogs, Insect geography, Insect tax-onomy, Pyrgomorphidae.

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A Diakonoff

*U S Nat Mus Bull* 257:484P

1967 500 SM65B

Illustrations, Insect biology, Insect taxonomy, Microlepidoptera, Surveys, Zoogeography.

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C E Dyte

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Feb 1969 421 EN8

Catalogs, Dolichopodidae, Insect geography.

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W Eberhard

*Psyche* 74(2):173-181

Jun 1967 421 P95

Aracida, Food preservation, Insect behavior, Insect evolution, Insect food, Predaceous insects.

**1242-69**  
THREE NEW SPECIES OF PHYTOSEIID MITES FROM WESTERN SUDAN (ACARINA: PHYTOSEIIDAE).  
E A Elbadry

*Rev Zool Bot Afr* 77(3/4):321-328

28 Jun 1968 410 R326

Acarina, Insect identification, Insect taxonomy, Phytoseiidae, Zoogeography.

**1243-69**  
SUPPLEMENT TO THE KNOWLEDGE OF THE CYCLOCEPHALIDS (COL., DYNASTINAE). (GE )  
S Endrodi

*Munich Mus G Frey Entomol Arb* 18:406-411

01 Jul 1967 420 M923

Catalogs, Dynastidae, Insect taxonomy, Zoogeog-raphy.

**1244-69**  
LABIDOSTOMMA NEPALESE (NICOLETIEL-LIDAE), A NEW ASIATIC SPECIES. (FR )  
Z Feider N Vasiliu

*Acarologia* 10(4):630-644

Dec 1968 434.8 AC1

Acarina, Insect taxonomy, English abstract

**1245-69**  
NOTES ON SOME INSECTS COLLECTED IN AUSTRIA.

J C Felton

*Entomologist* (London) 102(1268):17-20

Jan 1969 421 EN8

Catalogs, Formicidae, Insect collection, Insect ecology.

**1246-69**  
REVISION OF THE EPITGINI (COL., TENEBRIDNIDAE). PART I. (GE )  
H Freude

*Munich Mus G Frey Entomol Arb* 18:137-307

01 Jul 1967 420 M923

Catalogs, Insect taxonomy, Tenebrionidae, Zoogeography.

**1247-69**  
TWO NEW AFRICAN COPROPHAGIDS AS WELL AS A NEW SYNONYMY (COL., SCARAB.). (GE )  
G Frey

*Munich Mus G Frey Entomol Arb* 18:404-405

01 Jul 1967 420 M923

Insect taxonomy, Nomenclature, Scarabaeidae.

**1248-69**  
BIBLIOGRAPHY OF THE FAUNISTIC LITERATURE ON MICROLEPIDOPTERA FOR THE AREA OF THE GERMAN DEMOCRATIC REPUBLIC. I.  
G Friese

*Entomol Ber* 45-54

1966 Q1.461 E54

Bibliography, Microlepidoptera, Zoogeography, To be continued.

**1249-69**  
LACE BUGS COLLECTED DURING THE BREDIN-ARCHBOLDSMITHSONIAN BIOLOGI-CAL SURVEY OF DOMINICA, B. W. I. (HEMIPTERA: TINGIDAE).  
R C Froeschner

*Great Basin Natur* 28(4):161-171

31 Dec 1968 410 G79

Catalogs, Insect taxonomy, Tingidae.

**1250-69**  
A NEW COCCINELLID SPECIES FROM THE IVORY COAST. (GE )  
H Fursch

*Inst Fondamental Afr Noire Bull Ser A Sci Natur*

30(3):1152-1153

Jul 1968 515 D14

Coccinellidae, Insect taxonomy.

**1251-69**  
THE INSECT FAUNA OF SURINAM, AS WELL AS A COMPARISON OF THESE INSECTS WITH THE ODONATA FAUNA OF THE AN-TILLES. (DU )  
D C Geijskes

*Entomol Ber* 27(4):69-72

01 Apr 1967 420 N38B

Insect ecology, Insect taxonomy, Odonata, Surveys, English abstract

**1252-69**  
CAUDACHELES, A NEW GENUS IN THE FAMILY CHEYLETIDAE (ACARINA: PROSTIGMATA).  
U Gerson

*Acarologia* 10(4):645-649

Dec 1968 434.8 AC1

Cheyletidae, Insect taxonomy.

**1253-69**  
A REVISION OF THE GROUND BEETLES BE-LONGING TO SCAPHINOTUS, SUBGENUS BRENNUS (COLEOPTERA, CARABIDAE).  
T Gidaspow

*Amer Mus Nat Hist Bull* 140(3):137-192 MAP

REF

20 Dec 1968 500 N483B

Carabidae, Catalogs, Insect taxonomy, Zoogeog-raphy.

**1254-69**  
THE MANTODEA OF LAMTO AND THE SAVANNAHS IN THE IVORY COAST. (FR )  
Y Gillon R Roy



- Inst Fondamental Afr Noire Bull Ser A Sci Natur* 30(3):1038-1151 MAP REF  
Jul 1968 515 D14  
Catalogs, Demography, Insect rearing, Insect taxonomy, Life cycle, Mantidae, Sex ratios, Surveys, English abstract
- 1255-69**  
**COLEOPTERAN ELATERIDAE NEW TO TROPICAL AFRICA. (FR)**  
C Girard  
*Inst Fondamental Afr Noire Bull Ser A Sci Natur* 30(3):1154-1168  
Jul 1968 515 D14  
Catalogs, Elateridae, Insect geography, Insect taxonomy.
- 1256-69**  
**SYRPHID INVENTORY OF THE HEILOOER COLLECTION. (DU)**  
V S van der Goot  
*Entomol Ber* 27(7):135-137  
01 Jul 1967 420 N38B  
Diptera, Syrphidae. English abstract
- 1257-69**  
**ON THE GENUS CHLOROPEPLA STAL., 1867, WITH A DESCRIPTION OF A NEW SPECIES (HEMIPTERA, PENTATOMIDAE, PENTATOMINAE). (POR)**  
J Grazia  
*Rev Brasil Biol* 28(2):193-206 REF  
Jun 1968 442,8 R326  
Insect taxonomy, Pentatomidae. English abstract
- 1258-69**  
**SYMPHEROBIUS ELEGANS STEPH. 1836 (NEUROPTERA, PLANIPENNIA) NEW TO NORWAY.**  
I. Greve  
*Norsk Entomol Tidsskr* 15(2):114  
1968 421 N812  
Insect taxonomy, Planipennia.
- 1259-69**  
**A NEW TECHNIQUE FOR THE RECOVERY OF SPIDER VENOM.**  
R H Grothaus D E Howell  
*Kans Entomol Soc J* 40(1):37-41  
Jan 1967 420 K13  
Distilled water, Injections, Insect cages, Mice, Mortality, Research, Spider venom.
- 1260-69**  
**DIPTERA: ENPIDIDAE, ACALYPTRATAE FAMILIES AND SCATOPHAGIDAE.**  
W Hackman  
*Suomen Hyonteistieteellinen Aikakauskirj Ann Entomol Fenn* 34(2):93-98 REF  
Jun 1968 421 SU7  
Diptera, Drosophilidae, Heleomyzidae, Insect identification, Insect taxonomy, Sphaeroceridae, Zoogeography.
- 1261-69**  
**NOTES ON THE ARTHROPOD FAUNA OF SPITSBERGEN II. 9. MALLOPHAGA FROM SPITSBERGEN AND BEAR ISLAND.**  
W Hackman E S Nyholm  
*Suomen Hyonteistieteellinen Aikakauskirj Ann Entomol Fenn* 34(2):75-82  
Jun 1968 421 SU7  
Arthropoda, Birds, Insect identification, Insect taxonomy, Mallophaga, Zoogeography.
- 1262-69**  
**BIBIONIDAE (DIPTERA) OF NEW GUINEA.**  
D E Hardy  
*Pacific Insects* 10(3-4):443-513  
Dec 1968 421 P11  
Bibionidae, Insect identification, Insect taxonomy, Zoogeography.
- 1263-69**  
**A NEW MITE, ACULUS BENAKII N. SP. FROM OLEA EUROPEA L..**  
E Hatzinikolis  
*Acarologia* 10(4):650-652  
Dec 1968 434 AC1  
Aculus, Insect taxonomy, Olives.
- 1264-69**  
**THE SECRET FOREST. (FR)**  
R Hansman  
*Paris, Dupuis* 95P  
1967 Q1 49.113  
Forest insects, Wildlife
- 1265-69**  
**A BIOGEOLOGICAL INVESTIGATION OF SALT MARSHES ON THE SOUTH COAST OF THE ISLE OF TERSCHELLING.**  
P F van Heerde W Bongers  
*Tijdschr Entomol* 110(6):107-131 REF  
15 Nov 1967 421 T21  
Habitats, Insect collection, Insect geography, Insect identification, Surveys.
- 1266-69**  
**CONTRIBUTION TO THE STUDY OF THE ICHNEUMONIDAE (HYM.) IX.**  
G Den Hoed  
*Entomol Ber* 27(6):107-108  
01 Jun 1967 420 N38B  
Ichneumonidae, Insect taxonomy. English abstract.
- 1267-69**  
**NEOTYPE DESIGNATION FOR AEDES (STEGOMYIA) ALBOPICTUS (SKUSE). (DIPTERA: CULICIDAE).**  
Y M Huang  
*Entomol Soc Wash Proc* 70(4):297-302  
Dec 1968 420 W27  
Aedes albopictus, Culicidae, Insect identification, Insect taxonomy, Insect vectors.
- 1268-69**  
**A NOTE ON THE IDENTITY OF HYLEMYA VARIATA (FALLEN) AND H. VARIABILIS STEIN (DIPTERA: ANTHOMYIIDAE).**  
H C Hockett  
*Entomol Soc Wash Proc* 70(4):346-347  
Dec 1968 420 W27  
Anthomyiidae, Insect identification, Insect taxonomy.
- 1269-69**  
**DISCOLOMIDAE IN MUSEUMS OF AMSTERDAM. (GE)**  
H John  
*Entomol Ber* 28(10):190-195  
01 Oct 1968 420 N38B  
Catalogs, Coleoptera, Insect geography, Insect taxonomy, Zoogeography.
- 1270-69**  
**NOTES ON THE GENUS PLACUSA ERICHSON (COL., STAPHYLINIDAE), WITH A KEY TO THE NORDIC SPECIES.**  
C Johnson  
*Norsk Entomol Tidsskr* 15(2):90-92  
1968 421 N812  
Insect morphology, Insect taxonomy, Staphylinidae.
- 1271-69**  
**HOVERFLIES (DIPT., SYRPHIDAE) FROM SPITSBERGEN.**  
E Kanervo  
*Suomen Hyonteistieteellinen Aikakauskirj Ann Entomol Fenn* 34(2):98-99 REF  
Jun 1968 421 SU7  
Diptera, Flowers, Fungi, Insect identification, Plants, Syrphidae, Zoogeography.
- 1272-69**  
**ON THE NORWEGIAN TABANIDAE (DIPTERA). (GE)**  
H Kauri  
*Norsk Entomol Tidsskr* 15(1):63-64  
1968 421 N812  
Catalogs, Insect taxonomy, Tabanidae. English abstract
- 1273-69**  
**NOTES ON THE ODONATA OF THE NETHERLANDS. CROCOTHEMIS ERYTHRAEA (BRULLÉ, 1832) IN THE NETHERLANDS (LIBELLULIDAE, SYMPETRINAE). (DU)**  
B Kianta  
*Entomol Ber* 28(8):156-160 MAP REF  
01 Aug 1968 420 N38B  
Catalogs, Insect geography, Insect migration, Odonata, Zoogeography. English abstract
- 1274-69**  
**SOME CORRECTIONS TO THE BRITISH LIST AND OTHER NOTES ON BRITISH FUNGUS GNATS (DIPTERA: MYCETOPHILIDAE).**  
I. N Kidd D M Ackland  
*Entomologist (London)* 102(1268):22-24  
Jan 1969 421 EN8  
Catalogs, Insect taxonomy, Mycetophilidae.
- 1275-69**  
**ONE PREVIOUSLY DESCRIBED AND ONE NEW SPECIES OF SOUTH AMERICAN BRUCHIDAE INJURIOUS TO COMMERCIAL LEGUME SEED CROPS (COLEOPTERA).**  
J M Kingsolver  
*Entomol Soc Wash Proc* 70(4):318-322  
Dec 1968 420 W27  
Bruchidae, Crops, Insect pests, Insect taxonomy, Legumes, Plant injuries, Seedlings.
- 1276-69**  
**TWO NEW SPECIES OF CRAMBUS FABRICIUS FROM WESTERN NORTH AMERICA (LEPIDOPTERA: PYRALIDIDAE).**  
A B Klots  
*N Y Entomol Soc J* 75(3):154-158  
Sep 1967 420 N48J  
Insect taxonomy, Pyralidae.
- 1277-69**  
**THE NORTH AMERICAN MICROCRAMBUS (LEPIDOPTERA: PYRALIDIDAE).**  
A B Klots  
*N Y Entomol Soc J* 76(1):9-21  
Mar 1968 420 N48J  
Catalogs, Insect identification, Insect taxonomy, Pyralidae.
- 1278-69**  
**SELECTION OF A LECTOTYPE OF TETANOCERA ELEGANS COLLIN, 1960 (DIPTERA: SCIOMYZIDAE).**  
L V Knutson  
*Entomologist (London)* 102(1269):33-34 REF  
Feb 1969 421 EN8  
Insect taxonomy, Sciomyzidae.
- 1279-69**  
**STENOBOTHRUS RUBICUNDUS (GERMAR, 1817): AN INVALID NAME (ORTHOPTERA).**  
G Kruseman C A W Jekel  
*Entomol Ber* 27(4):78-80 REF  
01 Apr 1967 420 N38B  
Gryllidae, Insect names, Insect taxonomy, Nomenclature.
- 1280-69**  
**THE OCCURENCE OF PSOROPHORA CYANESCENS (COQUILLETT), P. HORRIDA (DYAR KNAB) AND P. VARIPES (COQUILLETT) IN DELAWARE.**  
R W Lake F J Murphey C J Stachecki  
*Mosquito News* 28(3):470  
Sep 1968 421 M85  
Insect geography, Psorophora cyanescens, Psorophora horrida.
- 1281-69**  
**THE ENITHARES (HEMIPTERA-HETEROPTERA: NOTONECTIDAE) OF THE ORIENTAL REGION.**  
I Lansbury  
*Pacific Insects* 10(2):353-442 REF  
1968 421 P11  
Insect taxonomy, Notonectidae.

**1282-69**  
**THE SYSTEMATIC POSITION OF ORTHOPHYRUS MEXICANUS VAN DUZEE (HEMIPTERA HETEROPTERA: SALDIDAE).**  
 J D Lattin R H Cobben  
*Entomol Ber* 28(7):130-135  
 01 Jul 1968 420 N38B  
 Insect geography, Insect morphology, Insect taxonomy, Saldidae, Zoogeography.

**1283-69**  
**SOUTH PACIFIC SYMPHYLEONA (COLLEMBOLA).**  
 P N Lawrence  
*Pacific Insects* 10(2):325-340  
 1968 421 P11  
 Australian Region, Collembola, Insect taxonomy.

**1284-69**  
**GROUND INHABITING ACULEATA FROM DUTCH AND BELGIAN AREAS. IN 1965 AND 1966. (DU)**  
 V Lefebvre  
*Entomol Ber* 27(7):138  
 01 Jul 1967 420 N38B  
 Aculeata, Hymenoptera, English abstract

**1285-69**  
**OLIGIA FASCIUNCULA HISPANICA, SUBSP. NOV. (LEP., NOCTUIDAE). (GE)**  
 B J Lempke  
*Entomol Ber* 27(7):139-140  
 01 Jul 1967 420 N38B  
 Insect taxonomy, Noctuidae, Oligia, Zoogeography.

**1286-69**  
**FURTHER RECORDS OF NEW JERSEY APHIDS (HOMOPTERA: APHIDIDAE).**  
 M D Leonard  
*N Y Entomol Soc J* 75(2):77-92  
 Jun 1967 420 N48J  
 Aphididae, Insect ecology, Insect taxonomy, Surveys, Zoogeography.

A list of 93 aphids from New Jersey is given, including source localities, dates of collection and host plants.

**1287-69**  
**ECOLOGICAL AND MORPHOLOGICAL STUDY OF ROBBER FLIES OF THE TRIBE ASILINI (DIPTERA, ASILIDAE) WITH DESCRIPTIONS OF NEW GENERA AND SPECIES FROM KAZAKHSTAN AND SOVIET CENTRAL ASIA.**  
 P A Ler  
*Entomol Rev* 46(2 APR-JUN):232-241  
 1967 421 R322AE  
 Asilidae, Diptera, Insect ecology, Insect morphology, Insect taxonomy. Translated from Russian. description of 13 new species and 4 new genera

**1288-69**  
**ACRIDOLOGICAL EXCURSION IN EL JUNCAL VALLEY OF THE NEGRO RIVER. (SP)**  
 J Liebermann  
*Soc Cien Argentine An* 184(1-2 JUL-AUG):3-11  
 Aug 1967 516 SO1  
 Acrididae, Catalogs, Surveys. English abstract

**1289-69**  
**NEW CHRYSOMELID SPECIES FROM PAKISTAN (COL., CHRYSOMELIDAE). (GE)**  
 I Lopatin  
*Munich Mus G Frey Entomol Arb* 18:323-326  
 01 Jul 1967 420 M923  
 Chrysomelidae, Insect taxonomy.

**1290-69**  
**A REVIEW OF THE TAXONOMY AND MORPHOLOGY OF THE BEROITHIDAE, WITH THE DESCRIPTION OF A NEW SUBFAMILY FROM CHILE (NEUROPTERA).**  
 E G MacLeod P A Adams  
*Psyche* 74(3):237-265 REF  
 Sep 1967 421 P95

Catalogs, Insect evolution, Insect geography, Insect morphology, Insect taxonomy, Neuroptera.

**1291-69**  
**A STUDY OF THE TYPHLOCYBINE GENERA OF THE ORIENTAL REGION (THAILAND, THE PHILIPPINES AND ADJOINING AREAS).**  
 S H Mahmood  
*Pacific Insects Monogr* 12(1):1-52 REF  
 01 Mar 1967 421 P11 SUPPL  
 Catalogs, Cicadellidae, Insect taxonomy.

**1292-69**  
**TWO EUPHITHIRACARID SPECIES FROM THE TIEN SHAN AND ALTAI MOUNTAINS (ACARI, ORIBATEI). (GE)**  
 K Markel  
*Acarologia* 10(4):725-732  
 Dec 1968 434.8 AC1  
 Insect taxonomy, Oribatei.

**1293-69**  
**MICROARTHROPODS FROM TWO QUEBEC WOODLAND HUMUS FORMS. II. THE COLLEMBOLA.**  
 V G Marshall  
*Entomol Soc Quebec Ann* 12(3):166-181 REF  
 Sep 1967 420 EN822  
 Collembola, Forest soils, Habitats, Insect geography, Insect identification, Soil insects.

**1294-69**  
**NOTES ON COLEOPTERA XI. (COMMENTS ON THE GENUS HETEROPELIDNOTA OHAUS, WITH A DESCRIPTION OF A NEW SPECIES (COL. SCARABAEIDAE, RUTELINAE). (SP)**  
 A Martinez  
*Soc Cien Argentine An* 183(5-6, MAY-JUN):145-154  
 Jun 1967 516 SO1  
 Catalogs, Insect taxonomy, Reproductive organs, Scarabaeidae, English abstract

**1295-69**  
**THE GENERA ATHLIA ERICHSON (COL. SCARABAEIDAE, SERICINAE). (SP)**  
 A Martinez  
*Munich Mus G Frey Entomol Arb* 18:327-373 REF  
 01 Jul 1967 420 M923  
 Catalogs, Insect taxonomy, Scarabaeidae, Zoogeography.

**1296-69**  
**THE GENUS CHIRODISCUS TROUESSART AND NEUMANN WITH LECTOTYPE DESIGNATION OF C. AMPEXANS TROUESSART AND NEUMANN (LISTROPHOROIDEA: ATOPOMELIDAE).**  
 B McDaniel  
*Acarologia* 10(4):653-656 REF  
 Dec 1968 434.8 AC1  
 Acarina, Insect ecology, Insect taxonomy.

**1297-69**  
**NEW RECORDS OF FLEAS FROM NORWAY.**  
 R Mehl  
*Norsk Entomol Tidsskr* 15(1):70  
 1968 421 N812  
 Catalogs, Insect taxonomy, Siphonaptera.

**1298-69**  
**CONTRIBUTION TO THE STUDY OF THE GENUS PARALUCILIA BRAUER AND BERGENSTAM, 1891 (DIPTERA, CALLIPHORIDAE). (POR)**  
 R P de Mello  
*Rev Brasil Biol* 28(2):177-192 REF  
 Jun 1968 442.8 R326  
 Calliphoridae, Catalogs, Insect geography, Insect taxonomy. English abstract

**1299-69**  
**DISCOVERY OF TWO SPECIES OF DIPLAZON FROM NEW GUINEA (HYMENOPTERA: ICHNEUMONIDAE).**  
 S Momoi A Nakanish  
*Pacific Insects* 10(2):341-343

1968 421 P11  
 Ichneumonidae, Insect taxonomy.

**1300-69**  
**NEW OR LITTLE KNOWN AUSTRALIAN CARABIDAE IN THE FREY MUSEUM (COL.).**  
 B P Moore  
*Munich Mus G Frey Entomol Arb* 18:308-322  
 01 Jul 1967 420 M923  
 Carabidae, Catalogs, Insect taxonomy.

**1301-69**  
**THE VALUE OF OVIPOSITIONAL ABILITY IN TICK TAXONOMY.**  
 S K Nagar  
*Acarologia* 10(4):614-620 REF  
 Dec 1968 434.8 AC1  
 Dermacentor variabilis, Insect taxonomy, Oviposition, Rhipicephalus sanguineus.

**1302-69**  
**THE GENUS INOPUS (OMETOPONIA, ALTERMETOPONIA) (DIPTERA: STRATIOMYIADAE).**  
 A Nagatomi J Yukawa  
*Pacific Insects* 10(3-4):521-528  
 Dec 1968 421 P11  
 Insect taxonomy, Stratiomyidae, Zoogeography.

**1303-69**  
**MESOSYRPHUS NIGRITARSIS (ZETT.) (DIPT., SYRPHIDAE) A NEW SPECIES TO THE DUTCH FAUNA. (DU)**  
 H J G Neufels  
*Entomol Ber* 28(8):155  
 01 Aug 1968 420 N38B  
 Insect geography, Insect taxonomy, Syrphidae. English abstract

**1304-69**  
**STILBIA ANOMALA IIW. NEW FOR SCANDINAVIA. (LEP., NOCTUIDAE). (NO)**  
 A Nielsen  
*Norsk Entomol Tidsskr* 15(1):18  
 1968 421 N812  
 Insect taxonomy, Norway. English abstract

**1305-69**  
**NEOLASIOPTERA MARTELLI SP. N., A GALL MIDGE INJURING AGAVE IN MEXICO.**  
 W Nijveldt  
*Entomol Ber* 27(7):125-127  
 01 Jul 1967 420 N38B  
 Agave, Cecidomyiidae, Insect taxonomy, Neolasioptera martinelli.

**1306-69**  
**NEW SPECIES OF HORSE FLIES (DIPTERA, TABANIDAE) FROM PALAEARCTICA.**  
 N G Olsuf'yev  
*Entomol Rev* 46(2 APR-JUN):225-231  
 1967 421 R322AE  
 Diptera, Insect identification, Insect taxonomy, Tabanidae, Zoogeography. 12 new species are listed, translated from Russian.

**1307-69**  
**CALAMEUTA FILIFORMIS (EVERSM.) A FORGOTTEN STRAW WASP (HYM., CEPHID.). (DU)**  
 S J van Ooststroom  
*Entomol Ber* 28(8):142-143  
 01 Aug 1968 420 N38B  
 Cephidae, Insect geography, Zoogeography. English abstract

**1308-69**  
**RARE OR LITTLE KNOWN COLEOPHORES (LEP. COLEOPHORIDAE). (GE)**  
 H Patzak  
*Entomol Ber* 125-129  
 1967 QL461.E54  
 Coleophoridae, Insect identification, Insect taxonomy, Zoogeography. 15 species are listed.

**1309-69**  
**A NEW SYNONYMY IN HYBOMITRA (DIPTERA: TABANIDAE).**  
 L L Pechuman A Stone



- Entomol Soc Wash Proc* 70(4):102  
Dec 1968 420 W27  
Insect identification, Insect taxonomy, Nomenclature, Tabanidae, Zoogeography.
- 1310-69**  
**THE ARADIDAE OF NEW ZEALAND (HEMIPTERA, HETEROPTERA). III--THE ARADINAE AND CALISHINAE.**  
J G Pendergrast  
*Ray Soc New Zeal Trans Zool* 10(10):81-88  
22 Jan 1968 514 W46TZ  
Hemiptera, Insect taxonomy, Zoogeography.
- 1311-69**  
**NEW AND MISTAKEN APHODIINAE FROM ALL OVER THE WORLD (COL., SCARAB.). PART V. (GE)**  
K Petrovitz  
*Munich Mus G Frey Entomol Arb* 18:388-403  
01 Jul 1967 420 M923  
Catalogs, Insect taxonomy, Scarabaeidae, Zoogeography.
- 1312-69**  
**NEW ACANTHOCERINAE, HYBOSORINAE AND OCHODAEINAE (SCARAB., COL.).**  
R Petrovitz  
*Munich Mus G Frey Entomol Arb* 18:425-431  
01 Jul 1967 420 M923  
Catalogs, Insect taxonomy, Scarabaeidae.
- 1313-69**  
**A REVISED INTERPRETATION OF THE PROCTIGER OF MALE URANOETAENIA WITH A RELATED NOTE ON HODGESIA (DIPTERA: CULICIDAE).**  
E L Peyton R H Hochman  
*Entomol Soc Wash Proc* 70(4):376-382 REF  
Dec 1968 420 W27  
Culicidae, Insect anatomy, Insect identification, Insect taxonomy, Uranotaenia.
- 1314-69**  
**GENERA AND SPECIES OF THE DERMAPTERA. 6. LABIDURINAE, APACHYINAE AND ALLOSTETHINAE (LABIDURIDAE).**  
E J Popham A Brindlc  
*Entomologist (london)* 101(1260):105-108  
May 1968 421 EN8  
Catalogs, Insect taxonomy, Labiduridae, Zoogeography.
- 1315-69**  
**COLEOPTERA FROM NORTHEAST AFRICA. STAPHYLINIDAE. (50. CONTRIBUTION TO THE KNOWLEDGE OF THE STENINAE). (GE)**  
V Puthz  
*Notulae Entomol* 48(2):81-89 MAP  
1968 421 N84  
Catalogs, Insect taxonomy, Staphylinidae, Zoogeography.
- 1316-69**  
**CONCERNING STENUS-TYPE BOHEMAN, INCLUDING NOTES ON SYNONYMIES. COLEOPTERA, STAPHYLINIDAE. (GE)**  
V Puthz  
*Arkiv Zool* 19(2-3):291-296  
1967 410.9 SV22  
Insect taxonomy, Staphylinidae, Zoogeography.
- 1317-69**  
**CHRYSOCARABUS SPLENDENS AMMONIUS NAJACENSIS SR. NOVA (COL. CARABIDAE). (FR)**  
P Raynaud  
*Entomops* (10):37-41  
15 May 1968 QL461.E53  
Carabidae, Chrysocarabus splendens, Insect taxonomy.
- 1318-69**  
**THE TYPE OF THE GENUS ODYNERUS LATREILLE (HYMENOPTERA, VESPOIDEA).**  
O W Richards J van der Vecht  
*Entomol Ber* 28(10):196-197 REF  
01 Oct 1968 420 N38B
- Insect taxonomy, Vespidae.
- 1319-69**  
**UNDESCRIBED FOSSIL INSECTS FROM THE UPPER PERMIAN OF BELMONT, NEW SOUTH WALES.**  
E F Rick  
*Aust Mus Rev* 27(15):303-310 REF  
27 Nov 1968 514 AU7  
Insect taxonomy, Paleontomology.
- 1320-69**  
**A NEW GENUS OF PARASITIC TACHINID FLIES (DIPTERA, TACHINIDAE) FROM SOVIET CENTRAL ASIA.**  
V A Rikhter  
*Entomol Rev* 46(2 APR-JUN):281-282  
1967 421 R322AE  
Diptera, Insect taxonomy, Tachinidae. Translated from Russian.
- 1321-69**  
**PALEARCTIC SPECIES OF THE GENUS SPHENOMETOPA (DIPTERA, SARCOPHAGIDAE).**  
B B Rodendorf  
*Entomol Rev* 46(2 APR-JUN):264-273  
1967 421 R322AE  
Diptera, Insect anatomy, Insect taxonomy, Palearctic Region, Sarcophagidae. Translated from Russian. the author lists many species.
- 1322-69**  
**SIMULIIDAE OF ITALY. (IT)**  
J A Rubzov  
*Soc Entomol Ital Mem* 46(2):127-180 REF  
1967 420 IT1M  
Catalogs, Insect geography, Insect taxonomy, Simuliidae. English abstract
- 1323-69**  
**THE GENUS POECILOPSYCHE N. GEN. (TRICHOPTERA, LEPTOCERIDAE). (FR)**  
F Schmid  
*Entomol Soc Quebec Ann* 13(1):3-31  
Jan 1968 420 EN822  
Catalogs, Insect evolution, Insect taxonomy, Trichoptera. English abstract
- 1324-69**  
**THE FAMILY ARCTOPSYCIDAE (TRICHOPTERA). (FR)**  
F Schmid  
*Ent Soc Quebec Mem* (1):4-84 REF  
Feb 1968 QL461.E56  
Insect evolution, Insect geography, Insect morphology, Insect taxonomy, Trichoptera.
- 1325-69**  
**SNELLENUS IN THE NEOTROPICAL REGION (HYMENOPTERA: BRACONIDAE: MICROGASTERINI).**  
R D Shenefelt  
*Entomol Soc Wash Proc* 70(4):339-345  
Dec 1968 420 W27  
Braconidae, Insect taxonomy, Zoogeography.
- 1326-69**  
**THE CLASSIFICATION OF SMERINTHUS. (FR)**  
M Van der Sloot  
*Lambillionea* 66(11/12):96-98  
25 Dec 1967 420 N15  
Bombyx, Insect taxonomy, Smerinthus, Sphingidae.
- 1327-69**  
**STUDIES ON CALIFORNIA ANTS. 4. TWO SPECIES OF CAMPONOTUS (HYMENOPTERA: FORMICIDAE).**  
R R Snelling  
*Entomol Soc Wash Proc* 70(4):350-358 REF  
Dec 1968 420 W27  
Formicidae, Insect taxonomy, Research.
- 1328-69**  
**A REVIEW OF HADRURUS SCORPIONS (VEJOVIDAE).**  
H L Stahnke
- Entomol News (philadelphia)* 80(3):57-65  
Mar 1969 421 EN88  
Insect taxonomy, Scorpionida, Zoogeography.
- 1329-69**  
**NASONOVIA VANNESII N. SP. (HOMOPTERA, APHIDIDAE) ON RIBES X CULTORUM.**  
C Stenseth  
*Norsk Entomol Tidsskr* 15(2):111-113  
1968 421 N812  
Aphididae, Currants, Insect pests, Insect taxonomy, Nasonovia vannesii, Zoogeography.
- 1330-69**  
**A NEW MOSQUITO RECORD FOR THE UNITED STATES (DIPTERA: CULICIDAE).**  
A Stone  
*Entomol Soc Wash Proc* 70(4):384  
Dec 1968 420 W27  
Culicidae, Zoogeography.
- 1331-69**  
**SOME NOTES ON THE SPECIES AUTHORIZATION OF AMISCHA SARSI MUNST. AND THE SEX CHARACTERISTICS OF AMISCHA CAVIFRONS SHARP (COL., STAPHYLINIDAE). (GE)**  
A Strand  
*Norsk Entomol Tidsskr* 15(2):139-140  
1968 421 N812  
Insect taxonomy, Reproductive organs, Staphylinidae.
- 1332-69**  
**GYROPHAENA KEENI CASEY AND G. ORIENTALIS A. STR. (COL., STAPHYLINIDAE).**  
A Strand  
*Norsk Entomol Tidsskr* 15(1):35-36  
1968 421 N812  
Insect taxonomy, Staphylinidae, Zoogeography.
- 1333-69**  
**TETROPS STARKI CHEVR., A NEW SPECIES FOR NORWAY (COL., CERAMBYCIDAE). (NO)**  
A Strand  
*Norsk Entomol Tidsskr* 15(1):47-48  
1968 421 N812  
Cerambycidae, Insect taxonomy, German abstract
- 1334-69**  
**ON A NEW NORWEGIAN SPECIES OF THE GENUS ATHEA THS. (COL., STAPHYLINIDAE). (NO)**  
A Strand  
*Norsk Entomol Tidsskr* 15(1):61-62  
1968 421 N812  
Insect taxonomy, Staphylinidae, German abstract
- 1335-69**  
**A NEW SPECIES OF HIRSTIONYSSUS FROM TAIWAN (MESOSTIGMATA: LAELAPIDAE).**  
R W Strandtmann  
*Pacific Insects* 9(4):687-691  
20 Nov 1967 421 P11  
Insect taxonomy, Mesostigmata, Surveys.
- 1336-69**  
**ACROTRICHIS INSULARIS (MAKLIN, 1852) (COL., PTILIIDAE) DESIGNATION OF LECTO-TYPE AND REDESCRIPTION.**  
E Sundt  
*Norsk Entomol Tidsskr* 15(1):75-77  
1968 421 N812  
Coloptera, Insect taxonomy.
- 1337-69**  
**STUDIES ON NORWEGIAN APHIDS (HOM., APHIDOIDEA) I. THE SUBFAMILY DACTYNOTINAE BORNER.**  
H Tambs-Lyche  
*Norsk Entomol Tidsskr* 15(1):1-17 MAP REF  
1968 421 N812  
Aphididae, Catalogs, Insect taxonomy, Zoogeography.
- 1338-69**  
**MUSCIDAE (DIPT.) OF SPITSBERGEN.**

L Tiensuu  
*Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn* 34(2):99-104 REF  
 Jun 1968 421 SU7  
 Diptera, Insect identification, Insect taxonomy, Zoogeography

**1339-69**  
**DISTRIBUTIONAL NOTES ON METAMASINS (COLEOPTERA: CURCULIONIDAE).**  
 P Vaurie  
*N Y Entomol Soc J* 76(1):32-33  
 Mar 1968 420 N48J  
 Curculionidae, Demography, Neotropical Region, Zoogeography  
 The geographical distribution of six tropical species of Metamasins is discussed.

**1340-69**  
**PRELIMINARY KEY FOR THE IDENTIFICATION OF THE NYMPHS OF NORTH EUROPEAN HOMOPTERA CICADINA. I. DELPHACIDAE.**  
 J Villbaste  
*Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn* 34(2):65-74 REF  
 Jun 1968 421 SU7  
 Delphacidae, Homoptera, Insect identification, Insect taxonomy, Zoogeography.

**1341-69**  
**CONCERNING THE DESCRIPTION OF WEST AFRICAN HEMIPTERA. (FR )**  
 A Villiers  
*Inst Fondamental Afr Noire Bull Ser A Sci Natur* 30(3):1281-1285  
 Jul 1968 515 D14  
 Catalogs, Hemiptera, Insect taxonomy.

**1342-69**  
**HEMIPTERAN REDUVIIDAE AND PACHYNOCHIDAE FROM THE CHAD REGION. (FR )**  
 A Villiers  
*Inst Fondamental Afr Noire Bull Ser A Sci Natur* 30(3):1169-1187  
 Jul 1968 515 D14  
 Catalogs, Insect geography, Insect taxonomy, Reduviidae.

**1343-69**  
**SOME SUPPLEMENTARY DATA ON WOLF SPIDERS IN THE NETHERLANDS (HRANEAE, LYCOSIDAE). (DU )**  
 L Vlijm A Kessler A M Kessler-Geschiere  
*Entomol Ber* 28(8):152-154  
 01 Aug 1968 420 N38B  
 Catalogs, Insect behavior, Insect ecology, Insect taxonomy, Lycosidae, English abstract

**1344-69**  
**ADDITIONAL DATA ON SOME GENERA AND SPECIES OF ACRIDIDAE (ORTHOPTERA, ACRIDOIDEA) FROM THE INDO-MALAYAN REGION.**  
 F Willemse  
*Tijdschr Entomol* 110(12):381-397 REF  
 30 Dec 1967 421 T21  
 Acrididae, Insect geography, Insect taxonomy.

**1345-69**  
**MEGEREMAEIDAE, A NEW FAMILY OF ORIBATID MITES (ACARI: CRYPTOSTIGMATA).**  
 T A Woolley H G Higgins  
*Great Basin Natur* 28(4):172-175  
 31 Dec 1968 410 G79  
 Insect taxonomy, Orihatei, Zoogeography.

**1346-69**  
**FAUNAL NOTES ON DIPTERA IN THE NETHERLANDS. III. (DU )**  
 G van der Zanden  
*Entomol Ber* 27(4):74  
 01 Apr 1967 420 N38B  
 Asilidae, Insect geography, Syrphidae, English abstract

**1347-69**  
**NEW SPECIES OF THE GENUS TACHINA MIG. (DIPTERA, TACHINIDAE) PARASITES OF INJURIOUS LEPIDOPTERA IN THE USSR.**  
 I S Zimin  
*Entomol Rev* 46(2 APR JUN):274-280  
 1967 421 R322A1  
 Diptera, Lepidoptera, Parasitic insects.

## PHYSIOLOGY AND BIOCHEMISTRY

**1348-69**  
**ECOLOGICAL POINTS OF VIEW IN FAUNISTIC WORK. SHOWN ON THE EXAMPLE OF THE LARVAE OF LEAF WASPS. (GE )**  
 H Adam  
*Entomol Ber* 85-88  
 1967 Q1 461 E54  
 Diapause, Hymenoptera, Insect biology, Insect ecology, Insect genetics, Larvae, Parasitism.

**1349-69**  
**CONCERNING ACOUSTICAL STIMULI IN THE INSECT BRAIN. (GE )**  
 I J Adam  
*Naturwissenschaften* 55(12):654-655  
 Dec 1968 474 N213  
 Brain, Insect physiology, Insects, Sense organs.

**1350-69**  
**LABORATORY COLONIZATION OF TRICHOPROSOPON DIGITATUM (RONDANI) (DIPTERA: CULICIDAE).**  
 T H G Aitken J O Hingman R Manuel H Hoscini  
*Mosquito News* 28(3):445-454  
 Sep 1968 421 M85  
 Insect biology, Insect colonization, Insect eggs, Insect rearing, Life cycle, Trichoprosopon digitatum.

**1351-69**  
**N-DEMETHYLATION OF THE CHEMOSTERILANT HEMPA BY HOUSE FLY MICROSOMES.**  
 S Akov J E Oliver A B Borkovec  
*Life Sci* 7(22,PT 2):1207-1213 REF  
 15 Nov 1968 442.8 L62  
 Chemical control (insects), Chemosterilants, Hempa, Insect physiology, Metabolism, Microsomes, Musca domestica.

**1352-69**  
**METABOLISM OF THE CHEMOSTERILANT HEMPA BY CARBAMATERESISTANT HOUSE FLIES.**  
 S Akov A B Borkovec  
*Life Sci* 7(22,PT 2):1215-1218  
 15 Nov 1968 442.8 L62  
 Carhamates, Chemosterilants, Insect metabolism, Insect physiology, Insecticide resistant insects, Musca domestica.

**1353-69**  
**A QUANTITATIVE STUDY ON THE OVARIAN FUNCTION OF THE LEPIDOPTEROUS PYRALID GALLERIA MELLONELLA L. BY MEANS OF THE GRAFT TECHNIQUE. (FR )**  
 P Allegret G Panon  
*Acad Sci Compt Rend Ser D Sci Nat* 268(2, 1ST SEMESTER):397-400  
 13 Jan 1969 505 P21  
 Galleria mellonella, Insect physiology, Ovaries, Statistics, Tissue culture.

**1354-69**  
**THE LARVA OF MISCODERA ARCTICA PAYK. (COL., CARABIDAE).**  
 J Andersen  
*Norsk Entomol Tidsskr* 15(1):71-74  
 1968 421 N812  
 Carabidae, Insect taxonomy, Larvae, Life cycle.

**1355-69**  
**THE EFFECT OF INUNDATION AND CHOICE OF HIBERNATION SITES OF COLEOPTERA LIVING ON RIVER BANKS.**  
 J Andersen  
*Norsk Entomol Tidsskr* 15(2):115-133 REF

1968 421 N812  
 Coleoptera, Floods, Hibernation, Mortality  
 Sampling procedures indicate that many Coleoptera survive flooding of river banks and that the survival rate is affected by microenvironments. Hibernation activity of some Staphylinids in such areas is discussed

**1356-69**  
**THE EFFECT OF DAY LENGTH ON GEOGRAPHICAL RACES OF PECTINOPHORA GOSSYPIELLA (SAUND.) (LEPIDOPTERA, GELECHIIDAE). (DU )**  
 G W Ankersmit  
*Entomol Ber* 27(4):68  
 01 Apr 1967 420 N38B  
 Insect behavior, Pectinophora gossypiella, Photoperiodism, Zoogeography.

**1357-69**  
**ON THE LIFE OF VESPULA VULGARIS (L.) AND V. MACULIFRONS (BUYSSON) (HYMENOPTERA: VESPIDAE).**  
 W V Balduf  
*Entomol Soc Wash Proc* 70(4):332-338  
 Dec 1968 420 W27  
 Insect behavior, Insect biology, Insect identification, Social insects, Vespidae, Vespula maculifrons, Vespula vulgaris.

**1358-69**  
**AGEING AND PROTEIN SYNTHESIS IN DROSOPHILA MELANOGASTER. (GE )**  
 P Baumann P S Chen  
*Rev Suisse Zool* 75(4):1051-1055  
 Dec 1968 410 R324  
 Aging, Development, Drosophila melanogaster, Insect biochemistry, Protein synthesis, Radioactive tracers, English abstract

**1359-69**  
**ADVANCES IN INSECT PHYSIOLOGY.**  
 J W L Beament J E Treherne V B Wigglesworth  
*Advances Insect Physiol* 5:361P REF  
 1968 420 AD9  
 Food, Insect behavior, Insect biology, Insect flight, Insect morphology, Insect physiology.

**1360-69**  
**RELATIONSHIPS AMONG THE POLYHEDROSIS AND GRANULOSIS VIRUSES OF INSECTS.**  
 A J D Bellett  
*Virology* 37(1):117-123 REF  
 Jan 1969 448.8 V81  
 Cytoplasm, Gamuloses, Inclusion bodies, Morphology, Nucleic acids, Polyhedroses, Proteins, Serological tests, Virology, Virus diseases (insects).

**1361-69**  
**BEHAVIORAL MUTANTS OF DROSOPHILA ISOLATED BY COUNTERCURRENT DISTRIBUTION.**  
 S Benzer  
*Nat Acad Sci Proc* 58(3):1112-1119 REF  
 Sep 1967 500 N21P  
 Demography, Drosophila melanogaster, Insect behavior, Methodology, Mutation.

**1362-69**  
**SEXUAL DIMORPHISM OF THE CAMPSOMERINAE (HYMENOPTERA, SCOLIIDAE). (DU )**  
 J G Betrem  
*Entomol Ber* 27(6):103-106  
 01 Jun 1967 420 N38B  
 Insect evolution, Insect genetics, Insect morphology, Polymorphism, Reproductive organs, Scoliidae, English abstract.

**1363-69**  
**STUDIES ON SOME LAND SNAILS INJURIOUS TO AGRICULTURE IN U.A.R.**  
 S I Bishara M S Hassan A S Kalliny  
*Rev Zool Bot Afr* 77(3/4):239-252 MAP  
 28 Jun 1968 410 R326  
 Animal morphology, Chemical control (pests), Crop losses, Humidity, Plant injuries, Snails, Tem-



perature, Zoogeography. Six species of snails are described.

1364-69

**THE SYNAPTIC TRANSMISSION AND RELATED PHENOMENA IN INSECTS.**

J Boistel

*Advances Insect Physiol* 5:1-64 REF

1968 420 AD9

Acetylcholine, Biochemistry, Electricity, Ganglion cells, Insect physiology.

1365-69

**ELECTRON MICROSCOPE STUDIES ON THE LIFE CYCLE OF TRYPANOSOMA CRUZI WITH SPECIAL CONSIDERATION ON THE DEVELOPMENTAL FORMS IN THE VECTOR, RHODNIUS PROLIXUS. (GE.)**

C Brack

*Acta Trop* 25(4):289-356 REF

1968 475 AC8

Cytology, Electron microscopy, Life cycle, Morphology, Physiology, Rhodnius prolixus, Trypanosoma cruzi. English and French abstracts

1366-69

**A MASS FLIGHT OF AMPHIMALLON SOLSTITIALIS (LINNE) (COL., SCARABAEIDAE). (DU.)**

H K Brandhorst

*Entomol Ber* 28(7):122-123

01 Jul 1968 420 N38B

Insect behavior, Insect flight, Insect migration, Scarabaeidae. English abstract

1367-69

**COLONIAL BEHAVIOR OF APIS MELLIFERA MELLIFERA L. AFTER EXPOSURE TO GAMMA RADIATION. (HYMENOPTERA: APIDAE).**

R B Brooks J J Brendle

*Entomol Soc Wash Proc* 70(4):303-306 REF

Dec 1968 420 W27

Apidae, Apis mellifera, Dosage, Experimental insects, Gamma rays, Insect behavior, Social insects.

1368-69

**ON THE LIGHT STIMULUS, TRANSMITTED BY TEGUMENTARY NERVES, CONTROLLING THE NEUROSECRETORY CELLS IN THE DICTYOPTERA BLABERIDAE AND BLATTIDAE. (FR.)**

P Brousse-Gaury

*Acad Sci Compt Rend Ser D Sci Nat* 268(2, 1ST SEMESTER):383-386

13 Jan 1969 505 P21

Blattidae, Insect physiology, Light, Nervous system, Neurosecretion.

1369-69

**THE EFFECT OF ECDYSONES ON THE MAINTENANCE AND DEVELOPMENT OF OCULAR IMAGINAL DISCS IN VITRO.**

W J Burdette E W Hanley J Grosch

*Tex Rep Biol Med* 26(2, SUMMER):173-180 REF

1968 448.8 T31

Calliphora, Development, Drosophila melanogaster, Ecdysone, Insect hormones, Tissue culture.

1370-69

**A CONTRIBUTION TO THE STUDY OF THE MEDITERRANEAN RHIZOPULVINARIAE. (HOM. COCCIDAE). (FR.)**

M Canard

*Soc Entomol France Bull* 73(APR-MAR):90-96 REF

1968 420 F84B

Coccidae, Insect biology, Insect identification, Insect morphology, Insect taxonomy, Larvae, Pulvinaria, Zoogeography.

1371-69

**THE LIFE HISTORY AND DEVELOPMENT OF LYPHA DUBIA FALL. (DIPT., TACHINIDAE).**

L Cheng

*Entomologist (London)* 102(1269):25-32 REF

Feb 1969 421 EN8

Development, Host relationships, Insect morphology, Life cycle, Tachinidae.

1372-69

**THE ENERGETICS OF THE DEVELOPMENT OF CABBAGE WHITE PIERIS BRASSICAE L. (LEPIDOPTERA).**

J Chlodny

*Ekol Pol Ser A* 15(27):553-561 REF

1967 512 W263

Caloric value, Caterpillars, Experimental insects, Food consumption, Insect metabolism, Insect morphology, Larvae, Pieris brassicae, Polish summary.

1373-69

**A PRELIMINARY REPORT OF PLUSIA FESTATA GRAESER (LEP., NOCTUIDAE).**

I H Clayhills

*Suomen Ilvontieteittietellinen Aikakauskir Ann*

*Entomol Fenn* 34(2):104-105

Jun 1968 421 SU7

Insect anatomy, Insect identification, Noctuidae, Zoogeography.

1374-69

**THE PHYSIOLOGICAL SIGNIFICANCE OF ACETYLCHOLINE IN INSECTS AND OBSERVATIONS UPON OTHER PHARMACOLOGICALLY ACTIVE SUBSTANCES.**

E H Colhoun

*Advances Insect Physiol* 1:1-46 REF

1963 420 AD9

Acetylcholine, Biochemistry, Insect physiology, Pharmacology.

1375-69

**ULTRASTRUCTURE OF THE SENSORY HAIRS OF THE ANTENNAE IN THE LARVAE OF SPOPHYTES LUCIDULUS (DELAR.) (COL. BATHYSC.). (FR.)**

G Corhiere

*Acad Sci Compt Rend Ser D Sci Nat* 268(2, 1ST SEMESTER):387-388

13 Jan 1969 505 P21

Antennae, Hair, Insect morphology, Larvae, Orthoptera.

1376-69

**BIOCHEMICAL STUDY OF PLODIA INTERPUNCTELLA (HBN.) (LEPIDOPTERA). I. VARIATIONS IN BODY WEIGHT, DRY WEIGHT AND WATER CONTENT. (FR.)**

G Couture L Huot

*Natur Can* 94(4 JUL-AUG):437-446 REF

1967 410 N216

Biochemistry, Dehydration (physiological), Insect biology, Insect physiology, Larvae, Plodia interpunctella, Water. English summary.

1377-69

**MORPHOLOGY, ENDOSKELETON AND MUSCLES OF AN APTEROUS ACRIDID (ORTHOPTERA: PROSCOPIDAE). (FR.)**

L Covello de Zolessi

*Roy Entomol Soc London Trans* 120(3):113P

REF

08 Oct 1968 420 L84

Illustrations, Insect anatomy, Insect morphology, Muscles, Orthoptera. English summary.

1378-69

**STUDIES ON FREE COLONIES OF CRYPTOCERUS TEXANUS SANTSCHI (HYMENOPTERA: FORMICIDAE).**

W S Creighton

*Psyche* 74(1):34-41

Mar 1967 421 P95

Formicidae, Habitats, Insect behavior, Insect colonization, Insect geography, Tillandsia usneoides.

1379-69

**DEVELOPMENT OF EGGS OF THE TICK, IXODES RICINUS L., DEPENDING ON TEMPERATURE AND HUMIDITY AND THE THERMOPREFERENCE AND DAILY ACTIVITY OF ITS LARVAE.**

M Czapska

*Ekol Pol Ser A* 15(30):577-606 REF

1967 512 W263

Emergence, Humidity, Insect ecology, Insect eggs, Insect morphology, Ixodes ricinus, Larvae, Quantitative analysis, Tables (data), Temperature, Polish summary.

1380-69

**SOFTENING OF COLEOPTERA. (FR.)**

F D

*Entomops* (10):42

15 May 1968 Q1.461 E53

Coleoptera, Insect collection, Paradichlorobenzene, Water.

1381-69

**SOME NEW INFORMATION ON THE BOSTRYCHIDAE OF AFRICA. (FR.)**

R Damoiseau

*Rev Zool Bot Afr* 77(3/4):303-313 REF

28 Jun 1968 410 R326

Bostriichidae, Insect biology, Insect identification, Insect taxonomy, Lyctidae, Zoogeography. Many other species are mentioned.

1382-69

**EFFECTS OF SELECTION AND MIGRATION ON GEOTACTIC AND PHOTOTACTIC BEHAVIOUR OF DROSOPHILA. I.**

T Dobzhansky B Spassky

*Roy Soc Proc Ser B, Biol Sci* 168(1010):27-47

REF

06 Jun 1967 501 L84B

Drosophila pseudoobscura, Geotropism, Insect behavior, Insect genetics, Insect migration, Phototropism.

1383-69

**THE COLLECTION OF BITING FLIES IN WEST TEXAS WITH MALAISE AND ANIMAL-BAITED TRAPS.**

E R Easton M A Price H O Graham

*Mosquito News* 28(3):465-469

Sep 1968 421 M85

Baits, Ceratopogonidae, Culicidae, Insect collecting equipment, Rabbits, Surveys, Tabanidae, Traps.

1384-69

**AN AUTORADIOGRAPHIC TECHNIQUE FOR INSECT CELL MONOLAYERS IN ROSE MULTIPURPOSE TISSUE CULTURE CHAMBERS.**

P E Eide

*Tex Rep Biol Med* 26(3, FALL):303-307

1968 448.8 T31

Autoradiography, Insect cytology, Leucophaea maderae, Methodology, Tissue culture.

1385-69

**DEFENSE MECHANISMS OF ARTHROPODS. XX. QUANTITATIVE ASSESSMENT OF HYDROGEN CYANIDE PRODUCTION IN TWO SPECIES OF MILLIPEDES.**

H E Eisner D W Alsop T Eisner

*Psyche* 74(2):107-117 REF

Jun 1967 421 P95

Diplopoda, Hydrocyanic acid, Insect protective devices, Photometry, Quantitative analysis, Secretions.

1386-69

**THE EXTERNAL MORPHOLOGY OF THE POST-EMBRYONIC DEVELOPMENTAL STAGES OF SPINTURNIX MYOTI KOL. (ACARI: MESOSTIGMATA).**

G O Evans

*Acarologia* 10(4):589-608 REF

Dec 1968 434.8 AC1

Insect adaptation, Insect biology, Insect morphology, Mesostigmata, Parasitism.

1387-69

**SOME RELICT NEW GUINEA LEAFHOPPERS AND THEIR SIGNIFICANCE IN RELATION TO THE COMPARATIVE MORPHOLOGY OF THE HEAD AND PROTHORAX OF THE HOMOPTERA-AUCHENORRHYNCHA (HOMOPTERA: CICADELLIDAE; ULOPINAE).**

J W Evans

*Pacific Insects* 10(2):215-229 REF  
1968 421 P11  
Cicadellidae, Insect evolution, Insect morphology.

1388-69  
TETRANYCHUS LINTEARIUS DUFOUR, 1832,  
IS A VALID SPECIES (ACAR.) NOTULAE AD  
TETRANYCHIDAS II.  
G L Van Eynhoven  
*Entomol Ber* 27(5):90-100 REF  
01 May 1967 420 N38B  
Insect ecology, Insect taxonomy, Tetranychus,  
Zoogeography.

1389-69  
INSECTICIDAL DUSTS AGAINST JAPANESE  
BEETLES AND EUROPEAN CHAFERS FOR  
DISINSECTIZATION OF TRANSPORT VEHIC-  
LES.  
B J Fiori V A Puglisi D W Hamilton G E Cavin  
*J Econ Entomol* 62(1):8-9  
17 Feb 1969 421 J822  
Amphimallon majalis, Carbaryl, Chemical control  
(insects), DDT, Dusting, Insecticides, Malathion,  
Popillia japonica, Vehicles.

1390-69  
NOTES ON THE GENUS BOREUS IN NORWAY.  
A Fjellberg L Greve  
*Norsk Entomol Tidsskr* 15(1):33-34  
1968 421 N812  
Boreidae, Demography, Insect ecology, Sex ratios.

1391-69  
FURTHER CONTRIBUTIONS TO THE  
KNOWLEDGE OF THE DISTRIBUTION AND  
ECOLOGY OF BEETLES IN CENTRAL SOUTH  
NORWAY. (GE)  
A Friden  
*Norsk Entomol Tidsskr* 15(2):99-104 REF  
1968 421 N812  
Insect ecology, Staphylinidae, Zoogeography.

1392-69  
POSSIBLE NEW AND MORE SELECTIVE  
MEANS OF PEST CONTROL.  
R A E Galley  
*Roy Soc Prac Ser B, Biol Sci* 167(1007):155-163  
REF  
21 Feb 1967 501 L84B  
Attractants, Chemical control (insects), Formu-  
lations, Hormones, Insect repellents, Methodology,  
Pest control, Pesticides.

1393-69  
THE LIFE-CYCLE OF THE SPIDER PHIDIPPUS  
LOCCINEUS (SALTICIDAE) UNDER LABORA-  
TORY CONDITIONS.  
B T Gardner  
*Psyche* 74(2):104-106  
Jun 1967 421 P95  
Araneida, Hibernation, Insect behavior, Insect  
nutrition, Insect rearing, Life cycle.

1394-69  
HETEROGENEITY IN THE FIBRE COMPOSI-  
TION OF THE FLIGHT MUSCLES OF  
DRAGONFLIES (ODONATA).  
J C George  
*Cur Sci* 37(19):547-549 REF  
05 Oct 1968 475 SC123  
Insect morphology, Muscles, Odonata.

1395-69  
MASS REARING OF ANOPHELES STEPHENSI  
LISTON.  
E J Gerberg J W Gentry L H Diven  
*Mosquito News* 28(3):342-346  
Sep 1968 421 M85  
Anopheles stephensi, Insect rearing, Methodology.

1396-69  
HYPERSENSITIVITY OF NICOTIANA XANTHI  
N. C. TO VIRUS, TEMPERATURE, AND SOLU-  
BLE PROTEINS. (FR)  
S Gianinazzi J C Vallee C Martin  
*Acad Sci Compt Rend Ser D Sci Nat* 268(5, 1ST  
SEMESTER):800-802

03 Feb 1969 505 P21  
Electrophoresis, Insect physiology, Nicotiana,  
Proteins, Temperature, Viruses.

1397-69  
NATURAL SELECTION AND FEEDING SPEED  
IN A BLOOD-SUCKING INSECT.  
J D Gillett  
*Ray Soc Proc Ser B, Biol Sci* 167(1008):316-329  
REF  
28 Mar 1967 501 L84B  
Aedes, Host relationships, Immunity, Insect feed-  
ing, Insect protective devices, Natural selection.

1398-69  
STUDIES ON THE FAUNA OF MAYFLIES  
(EPHEMEROPTERA) IN THE ENVIRONS OF  
CRACOW. (POL)  
Z Glowacinski  
*Acta Hydrobiol* 10(1-2):103-130 MAP REF  
1968 409.6 AC8  
Ephemeroptera, Insect dissemination, Insect ecol-  
ogy, Insect populations, Larvae, Tables (data),  
Zoogeography. English summary.

1399-69  
A FIRST CASE OF MACROCHELES  
MUSCAEDEMESTICAE SCOPOLI, 1772  
(ACARINA: MESOSTIGMATA) IN TURKEY.  
(TU)  
K Goksu S Guler  
*Ankara Univ Vet Fak Dergisi* 15(1):109-113  
1968 41.9 AN4D  
Biological control (insects), Calliphora vicina,  
Host relationships, Mesostigmata, Musca  
domestica, Parasitic insects. English abstract

1400-69  
DYSMACHUS TRIGONUS (MEIGEN) (DIP-  
TERA, ASILIDAE) AS A PREDATOR OF  
ISCHNURA ELEGANS (VAN DER LINDEN)  
(ODONATA, COENAGRHIIDAE).  
K G Goodyear  
*Entomologist (london)* 102(1268):21  
Jan 1969 421 EN8  
Asilidae, Insect behavior, Ischnura, Predaceous in-  
sects.

1401-69  
THE PRESENCE OF LARGE FERRITIN  
CRYSTALS IN THE CELLS OF THE MIDDLE  
INTESTINE OF CAMPYLENCHIA LATIPES  
SAY. (HOMOPTERA, MEMBRACIDAE). (FR)  
J Gouranton R Folliot  
*Rev Can Biol* 27(1):77-81  
Mar 1968 442.8 R325  
Cytology, Electron microscopy, Insect biochem-  
istry, Insect histology, Intestines, Membracidae. En-  
glish abstract

1402-69  
CHANGES IN ACETYLCHOLINE LEVEL DUR-  
ING DIAPAUSE IN NORMAL AND IR-  
RADIATED PUPAE.  
K Grzelak Z Lassota  
*Polska Akad Nauk Bull Ser Sci Biol* 16(6):331-  
335  
1968 512 W262  
Acetylcholine, Celerio euphorbiae, Cobalt  
isotopes, Gamma rays, Insect biology, Pupae.

1403-69  
FURTHER STUDIES ON THE INTERNAL  
ANATOMY OF THE MELOIDAE. III. THE  
DIGESTIVE AND REPRODUCTIVE SYSTEMS  
AS BASES FOR TRIBAL DESIGNATION OF  
PSEUDOMELOE MINIACEOMACULATA  
(BLANCHARD) (COLEOPTERA: MELOIDAE).  
A P Gupta  
*N Y Entomol Soc J* 75(27:93-99  
Jun 1967 420 N48J  
Insect physiology, Meloidae, Reproductive organs,  
Zoogeography.

1404-69  
PERMEABILITY OF THE CUTICLE TO  
PYRETHRIN II. (TU)  
S Gurtunca  
*Ankara Univ Vet Fak Dergisi* 15(1):125-131 REF

1968 41.9 AN4D  
Biochemistry, Biological assay, Cuticle, Musca  
domestica, Permeability, Pyrethrum, Toxicology.  
English abstract

1405-69  
NOTES ON BUTTERFLY MIGRATION IN AR-  
GENTINA BETWEEN APRIL 1966 AND MAY  
1968.  
K J Hayward  
*Entomologist (london)* 102(1268):10-11  
Jan 1969 421 EN8  
Butterflies, Demography, Insect behavior, Insect  
flight, Insect migration.

1406-69  
THE LEPIDOPTERA DISTRIBUTION MAPS  
SCHEME.  
J Heath  
*Entomologist (london)* 102(1268):12-16 MAP  
Jan 1969 421 EN8  
Insect geography, Lepidoptera, Maps, Surveys.

1407-69  
THE USE OF THE FORAGE RATIO  
TECHNIQUE IN MOSQUITO HOST  
PREFERENCE STUDIES.  
A D Hess R O Hayes C H Tempelis  
*Mosquito News* 28(3):386-389 REF  
Sep 1968 421 M85  
Aedes albopictus, Birds, Culex quinquefasciatus,  
Culiseta, Host relationships, Mammals, Surveys.

1408-69  
NOTES ON SOME JAPANESE ERIOSO-  
MATINAE (HOMOPT., APHIDIDAE) AND  
THEIR LIFE CYCLE.  
D Hille Ris Lambers  
*Entomol Ber* 27(5):86-89  
01 May 1967 420 N38B  
Aphididae, Insect biology, Insect ecology, Insect  
morphology, Plant pests.

1409-69  
SPIRACULAR GILLS.  
H E Hinton  
*Advances Insect Physiol* 5:65-162 REF  
1968 420 AD9  
Environment, Insect physiology, Metamorphosis,  
Respiration, Spiracles.

1410-69  
ON THE AUTHORSHIP OF THE GENERIC  
NAME TAGALIS AND THE INVALIDITY OF  
THE FAMILY-GROUP NAME TAGALIDAE  
(HEMIPTERA: REDUVIIDAE).  
R F Hussey P Wygodzinsky  
*N Y Entomol Soc J* 76(1):34-36  
Mar 1968 420 N48J  
Insect taxonomy, Nomenclature, Reduviidae.

1411-69  
OVIPOSITION IN ORNITHODORUS MOUBATA  
MURRAY (IXODOIDEA, ARGASIDAE). (FR)  
*Rev Suisse Zool* 75(4):1033-1039  
Dec 1968 410 R324  
Insect reproduction, Oogenesis, Ornithodoros,  
Oviposition. English abstract

1412-69  
INDUCED SHIFT OF THE DIURNAL EMER-  
GENCE AND CALLING OF THE PEACH TREE  
BORER.  
S W Jacklin C E Yonce  
*J Econ Entomol* 62(1):21-22  
17 Feb 1969 421 J822  
Aegeriidae, Experimental insects, Insect behavior,  
Insect ecology, Light, Photoperiodism, Sanni-  
noidea exitiosa.

1413-69  
THE INFLUENCE OF WEATHER ON THE AC-  
TIVITY AND BEHAVIOR OF GREENHEAD  
FLIES, TABANUS NIGROVITTATUS  
MACQUART AND TABANUS LINEOLA  
FABRICIUS.  
J M Joyce E J Hansens  
*N Y Entomol Soc J* 76(2):72-80 MAP  
Jun 1968 420 N48J



Insect behavior, Insect dissemination, Insect traps, *Tabanus*, *Tabanus lineola*, Weather.

Trap catches of *Tabanus nigrovittatus* and *N. lineola* are correlated with weather conditions and fly dispersal.

#### 1414-69 PTERINS OF PIERIDAE II. (DU)

W J Kahos

*Entomol Ber* 27(5):83-86

01 May 1967 420 N38B

Chromatography, Insect biochemistry, Leucop-  
terin, Pieridae, German abstract

#### 1415-69

#### TEMPORAL TERRITORIAL BEHAVIOR OF THE DRAGONFLY AESCHNA CYANEA. (GE)

H Kaiser

*Naturwissenschaften* 55(12):657

Dec 1968 474 N213

Habitats, Insect behavior, Odonata, Territoriality.

#### 1416-69

#### AN AUTOMATED REPELLENCY ASSAY SYSTEM. I. STATISTICAL METHODS.

P Kasin M L Kardavke

*J Econ Entomol* 62(1):10-13

17 Feb 1969 421 J822

Aedes aegypti, Insect behavior, Insect repellents,  
Insecticides, Mice, Programming (computers),  
Statistical analysis.

#### 1417-69

#### PINK BOLLWORM VERSUS THE STERILE CONCEPT.

L C Keenan

*Farn Chem* 131(5):26-28

May 1968 57.8 AM3

Biological control (insects), Cotton, Industry, In-  
sect pests, Pectinophora gossypiella, Pesticides,  
Plant protection, Sterility.

#### 1418-69

#### EFFECT OF FOOD AND TEMPERATURE ON AEDES AEGYPTI (L.) AND AEDES TRISERIATUS (SAY) LARVAL DEVELOP- MENT.

J E Keirans R W Fay

*Mosquito News* 28(3):338-341

Sep 1968 421 M85

Aedes aegypti, Aedes triseriatus, Development, In-  
sect nutrition, Larvae, Temperature.

#### 1419-69

#### CIRCUMVERSION AND MATING POSITIONS IN PLATYPEZIDAE--AN EXPANDED AND EMENDED ACCOUNT (DIPTERA).

E L Kessel

*Wasmann J Biol* 26(2,FALL):243-253

1968 442.8 W28

Diptera, Insect morphology, Mating habits, Sex  
behavior.

#### 1420-69

#### A PRELIMINARY NOTE ON THE FAUNA OF WATER-FILLED TREE-HOLES.

R L Kitching

*Entomologist (london)* 102(1268):7-9 REF

Jan 1969 421 EN8

Diptera, Habitats, Insect ecology, Larvae, Life cy-  
cle, Surveys, Water.

#### 1421-69

#### FURTHER NOTES ON MELANISM IN CON- NECTICUT PANTHEA FURCILLA (PACKARD) (LEPIDOPTERA: NOCTUIDAE).

A B Klots

*N Y Entomol Soc J* 76(2):92-95

Jun 1968 420 N48J

Demography, Insect ecology, Insect genetics,  
Melanism, Noctuidae.

#### 1422-69

#### LARVAL DIMORPHISM AND OTHER CHARACTERS OF HETEROCAMPA PUL- VEREA (GROTE ROBINSON) (LEPIDOPTERA: NOTODONTIDAE).

A B Klots

*N Y Entomol Soc J* 75(2):62-67

Jun 1967 420 N48J

Insect morphology, Larvae, Notodontidae,  
Polymorphism.

#### 1423-69

#### METHODS USED IN UTAH FOR SAMPLING TABANID POPULATIONS.

A B Knudsen D M Rees

*Mosquito News* 28(3):356-361

Sep 1968 421 M85

Insect collection, Insect population, Insect survey,  
Insect traps, Methodology, Tabanidae.

The use of soil sampling techniques, sweep nets,  
emergence traps, Malaise traps and tanglefoot  
traps were evaluated as sampling methods for esti-  
mating Tabanid populations.

#### 1424-69

#### BOOPHILUS KOHLI HOOGSTRAAL AND KAISER 1960 (ACARINA: IXODIDAE). LIFE CYCLE AND MORPHOLOGY OF LARVA. (GE)

G Kohler G Hoffmann

*Z Parasitenk* 29(1):36-39

1967 442.8 Z33F

Boophilus, Insect morphology, Larvae, Life cycle.

#### 1425-69

#### VESPULA MACULIFRONS (HYMENOPTERA: VESPIDAE) PREYING ON THE EUROPEAN EARWIG FORFICULA AURICULARIA.

F E Kurczewski

*N Y Entomol Soc J* 76(2):84-86

Jun 1968 420 N48J

Forficula auricularia, Predaceous insects,  
Vespidae.

#### 1426-69

#### THE RELATIVE ABUNDANCE OF TWO DIGGER WASPS, OXYBELUS BIPUNCTATUS AND TACHYSPHEX TERMINATUS, AND THEIR ASSOCIATES, IN A SAND PIT IN CEN- TRAL NEW YORK.

F E Kurczewski B J Harris

*N Y Entomol Soc J* 76(2):81-83

Jun 1968 420 N48J

Demography, Insect ecology, Sphecidae, Surveys.

#### 1427-69

#### THE NOCTURNAL INSECT CATCHES AT PREDETERMINED TIME INTERVAL IN THE ORGANIC SOIL DISTRICT OF STE. CLOTILDE, SOUTHWESTERN QUEBEC.

J Lafrance

*Entomol Soc Quebec Ann* 13(1):32-53

Jan 1968 420 EN822

Coleoptera, Demography, Insect behavior, Insect  
flight, Insect populations, Lepidoptera, Surveys,  
Temperature.

#### 1428-69

#### LIFE HISTORY AND LIFE TABLE OF PHYTOSEIULUS PERSIMILIS ATHIAS- HERIOT.

J E Laing

*Acarologia* 10(4):578-588 REF

Dec 1968 434.8 AC1

Biological control (insects), Life cycle, Phytosei-  
ulus persimilis, Statistical analysis, Tetranychus ur-  
ticae.

#### 1429-69

#### TEMPERATURE AND LIFESPAN IN DROSOPHILA.

M J Lamb

*Nature* 220(5169):808-809

23 Nov 1968 472 N21

Aging, Drosophila melanogaster, Insect physiology,  
Longevity, Temperature.

#### 1430-69

#### IN VIVO ACTIVITY OF PROPOLIS AGAINST BACILLUS LARVAE.

L A Lindenfelser

*J Invertebrate Pathol* 12(1):129-131

Oct 1968 421 J826

American foulbrood, Apis mellifera, Bacillus lar-  
vae, Bacterial diseases (insects), Deformation,  
Drug therapy, Propolis, Spraying, Sulfur.

#### 1431-69

#### HISTOCHEMISTRY AND ULTRASTRUCTURE OF THE MYCETOMES AND SYMBIOTES OF ICERYA PURCHASI MASK. (HOMOPTERA- COCCOIDEAMONOPHLEBINAE). (FR)

C Louis

*Acad Sci Compt Rend Ser D Sci Nat* 268(2, 1ST

SEMESTER):445-448

13 Jan 1969 505 P21

Histochemistry, Icerya purchasi, Insect morpholo-  
gy, Mycetomes.

#### 1432-69

#### CHANGES IN REDUCING CARBOHYDRATES AND TREHALOSE DURING DEVELOPMENT OF EGGS FROM YOUNG AND OLD TENEBRIO MOLITOR L..

D Ludwig G F Rajendram L J Ramazzotto

*N Y Entomol Soc J* 76(1):27-31 REF

Mar 1968 420 N48J

Biochemistry, Carbohydrates, Eggs, Tenebrio mol-  
itor, Trehalose.

#### 1433-69

#### INVESTIGATION INTO THE TENDENCY OF PARTHENOGENIC REPRODUCTION OF SOLENOBIA MANNI Z. (LEPIDOPTERA, PSYCHIDAE). (GE)

H Malicky

*Rev Suisse Zool* 75(4):999-1004 MAP

Dec 1968 410 R324

Insect geography, Insect reproduction,  
Parthenogenesis, Psychidae.

#### 1434-69

#### THE MOSQUITO CONCENTRATOR.

J L McDonald R T Holway

*Mosquito News* 28(3):403-405

Sep 1968 421 M85

Aedes, Culex, Insect collecting equipment, Insect  
ecology, Insect traps, Methodology.

The author describes a mosquito concentrator, an  
apparatus consisting of a light, fan and collecting  
bottle which can be attached to vehicles for collect-  
ing mosquitoes.

#### 1435-69

#### BOMBUS JONELLUS (KIRBY) (HYM., APIDAE) HAS TWO GENERATIONS IN A SEASON.

O Meidell

*Norsk Entomol Tidsskr* 15(1):31-32

1968 421 N812

Bombus, Demography, Insect biology, Life cycle,  
Reproduction.

#### 1436-69

#### THE OXYGEN CONSUMPTION OF DIF- FERENT COLOR STAGES IN THE BUG NEZARA VIRIDULA (L.). (GE)

S Michieli B Zener

*Z Vergleichende Physiol* 58(2):223-224

06 Mar 1968 444.8 Z3

Color, Insect metabolism, Insect physiology,  
Nezara viridula, Oxygen. English summary.

#### 1437-69

#### PYRALIDAE OF TEXEL. (DU)

P Mijzen

*Entomol Ber* 27(6):119-120

01 Jun 1967 420 N38B

Catalogs, Insect morphology, Pyralidae. English  
abstract.

#### 1438-69

#### OBSERVATIONS AND RECORDS FOR SOME BRITISH THYSANOPTERA. VII. THIRPIDAE. THRIPS KLAPALEKI UZEL.

G D Morison

*Entomologist (london)* 101(1267):265-268 REF

Dec 1968 421 EN8

Insect ecology, Insect geography, Insect morpholo-  
gy, Thripidae.

1439-69

1439-69

ON THE MORPHOLOGY AND HISTOLOGY OF THE DIGESTIVE TRACTS OF TWO JASSIDS (HOMOPTERA, AUCHENORRHYNCHIA), WITH SPECIAL CONSIDERATION OF THE SO-CALLED FILTER CHAMBER. (GE.)

R Munk

*Z Wiss Zool* 175(3-4):405-424 REF

1967 410 Z3

Cicadellidae, Gastrointestinal system, Insect digestion, Insect histology, Insect morphology. English abstract

1440-69

ON THE SIGNIFICANCE OF THE DURATION OF PREOVIPOSITION AND OVIPOSITION PERIODS IN IXODID TICKS.

S K Nagar

*Acnologia* 10(4):621-629

Dec 1968 434.8 AC1

Dermacentor variabilis, Insect nutrition, Insect taxonomy, Oviposition, Rhipicephalus sanguineus.

1441-69

ECDYSONE AND ECDYSONE ANALOGUES: THEIR ASSAY ON THE FLESHFLY SARCOPHAGA PEREGRINA.

T Ohtaki R D Milkman C M Williams

*Nat Acad Sci Proc* 58(3):981-984 REF

Sep 1967 500 N21P

Analog, Biochemistry, Biological assay, Ecdysone, Sarcophagidae.

1442-69

NURSERYMENS EXPERIENCE IN 1964-1965 WITH MELICTA ATHALIA ROTTE (LEP., NYMPHALIDAE). (DU.)

H van Oorschot

*Entomol Ber* 28(7):124-127

01 Jul 1968 420 N38B

Insect morphology, Nurseries, Nymphalidae. English abstract

1443-69

OBSERVATIONS ON THE BEHAVIOR OF THE BEE ANTHIDIDIUM MANICATUM (6.).

L L Pechuman

*N Y Entomol Soc J* 75(2):68-73

Jun 1967 420 N48J

Anthidium, Insect behavior, Territoriality.

1444-69

ADVERSE EFFECTS OF FOLIC ACID ON THE GONADS OF ADULT DROSOPHILA (INSECTA, DIPTERA), MODIFICATIONS IN MORPHOLOGY AND HISTOPATHOLOGY. (FR.)

C Perrin-Waldemer

*Acad Sci Compt Rend Ser D Sci Nat* 268(1, 1ST SEMESTER):165-168 REF

06 Jan 1969 505 P21

Drosophila, Folic acid, Insect histology, Insect morphology, Reproductive organs.

1445-69

A MIXED WASP'S NEST. (GE.)

D S Peters

*Natur Mus* 98(6):231-238

Jun 1968 509 F856

Hymenoptera, Insect behavior, Insect nests, Social insects.

1446-69

OVIPOAROUS MORPHS OF LIPAPHIS ERYSIMI (KALTENBACH) IN INDIA (HOMOPTERA: APHIDIDAE).

V R Phalak

*Cir Sci* 37(20):590-591

20 Oct 1968 475 SC123

Aphididae, Insect morphology, Parthenogenesis, Zoogeography.

1447-69

ON THE KNOWLEDGE OF THE MORPHOLOGY AND BIOLOGY OF TROGODERMA ANGUSTUM SOLIER, 1849 (COLEOPTERA: DERMESTIDAE). (GE.)

E Philipp

*Z Angew Zool* 55(2):193-256 REF

1968 449.8 Z36

Insect biology, Insect geography, Insect morphology, Larvae, Trogoderma. English abstract

1448-69

DIPLOPODA (MYRIAPODA) HARMFUL TO CULTIVATED PLANTS IN THE CENTRAL AFRICAN REPUBLIC. DESCRIPTION OF HAPLOTHYSANUS HAPLOTHYSARIOIDES N. SP. (ODONTOPYGIDAE). (GE.)

G Pierrard

*Coton Fibres Trop* 22(4):435-436

Dec 1967 73.8 C82

Cotton, Diplopoda, Haplothysanus haplothysarioides, Insect biology, Insect pests, Insect taxonomy, Peanuts. English and Spanish summaries

1449-69

A REMARKABLE TERATOLOGICAL SPECIMEN OF THE INDIAN STICK INSECT CARAUSIUS MOROSUS BR. (PHASMIDAE, ORTHOPTERA).

I. P Pijnacker

*Entomol Ber* 28(8):149-151

01 Aug 1968 420 N38B

Insect abnormalities, Insect morphology, Phasmatidae.

1450-69

CIRCADIAN SYSTEMS. I. THE DRIVING OSCILLATION AND ITS ASSAY IN DROSOPHILA PSEUDOBBSCURA.

C S Pittendrigh

*Nat Acad Sci Proc* 58(4):1762-1767

Oct 1967 500 N21P

Diurnal rhythm, Drosophila pseudoobscura, Insect behavior, Light.

1451-69

ON THE PROBLEM OF THE IMPORTANCE OF THE LARVAL HAEMOGLOBIN FOR THE RESPIRATION OF THE TROPICAL CHIRONOMID CHIRONOMUS STRENTZKEI FITTKAU (DIPTERA). (GE.)

I Platzer-Schultz

*Z Vergleichende Physiol* 58(2):229-240 REF

06 Mar 1968 444.8 Z3

Chironomidae, Hemoglobin, Insect physiology, Insect respiration, Larvae, Oxygen, Tropics. English summary.

1452-69

A STUDY OF AREA OCCUPATION AND MATING BEHAVIOR IN INCISALIA IROIDES (LEPIDOPTERA: LYCAENIDAE).

J A Powell

*N Y Entomol Soc J* 76(1):47-57 REF

Mar 1968 420 N48J

Insect behavior, Insect ecology, Lycaenidae, Mating habits, Reproduction, Territoriality.

1453-69

INVESTIGATION INTO THE DIAPAUSE, CAPACITY ADAPTATION AND TEMPERATURE RESISTANCE OF SEVERAL INSECTS AND SNAILS. (GE.)

I Precht

*Z Wiss Zool* 176(1-2):122-172 REF

1967 410 Z3

Diapause, Insect adaptation, Insect physiology, Lygaeidae, Nitidulidae, Odonata, Snails, Temperature, Tenebrionidae. English abstract

1454-69

COMPARATIVE PHYSIOLOGY OF THE FLIGHT MOTOR.

J W S Pringle

*Advances Insect Physiol* 5:163-227 REF

1968 420 AD9

Apis mellifera, Coleoptera, Diptera, Insect flight, Insect physiology, Lepidoptera, Muscles.

1455-69

ELECTRON MICROSCOPICAL INVESTIGATIONS ON THE MORPHOLOGY OF GALL MITES (ERIOPHYIDAE). (GE.)

G Proescler K Eischen

*Biol Zentralbl* 87(5, SUP OCT):609-615

Oct 1968 442.8 B523

Electron microscopy, Eriophyidae, Insect morphology. English abstract

1456-69

OCCURENCE OF GALLERIA MELLONELLA AND ACHERONTA ATROPOS AS HONEY BEE PARASITES IN IRAN. (PE.)

H Rak Y Janjui

*Tebran Univ Vet Fac J* 24(2):52-63

Apr 1968 41.9 123

Acheronta atropos, Apis mellifera, Galleria mellonella, Insect behavior, Parasitic insects. English summary.

1457-69

CONTRIBUTION TO THE STUDY OF THE MODE OF ACTION OF CERTAIN SYNTHETIC INSECTICIDES, MOST PARTICULARLY OF LINDANE, AND OF THE PHENOMENA OF RESISTANCE TO THESE COMPOUNDS IN MUSCA DOMESTICA L. (FR.)

F Ramade

*Inst Nat Agron Ann (N S)* 5:1-266 REF

1967 105.3 IN8

Carbaryl, DDT, Esters, Insecticide resistant insects, Insecticides, Lindane, Musca domestica, Symptomatology, Toxicity. English summary

1458-69

ANATOMICAL CHANGES IN THE NEUROMUSCULAR COMPLEX OF THE PROLEG OF GALLERIA MELLONELLA (L.) (LEPIDOPTERA: PYRALIDIDAE) DURING METAMORPHOSIS.

W C Randall

*J Morphol* 125(1):105-117 REF

May 1968 444.8 J826

Abdomen, Galleria mellonella, Insect anatomy, Metamorphosis, Muscles.

1459-69

OBSERVATIONS ON THE NATURAL PREDATORS OF THE APHID PESTS IN THE RANCHI DISTRICT WITH SPECIAL REFERENCE TO CHILOMENES SEXMACULATA FABR.

S K Ray

*Indian Agr* 11(2):117-120

Jul 1967 22 IN294

Aphididae, Beneficial insects, Chilomenes sexmaculata, Coccinella septempunctata, Cruciferae, Insect pests, Scymnus xerampelinus, Syrphidae, Vegetables.

1460-69

STRUCTURE OF THE CRYPTONEPHRIDIAL MALPIGHIAN REGION OF THE LARVAL HYMENOPTERAN SYMPHYTA. (FR.)

P Razet D Quillevère

*Acad Sci Compt Rend Ser D Sci Nat* 268(2, 1ST SEMESTER):328-330 REF

13 Jan 1969 505 P21

Insect histology, Insect morphology, Larvae, Malpighian tubes, Symphyta, Urogenital system.

1461-69

VARIABILITY OF THE PHOTOPERIODIC REACTION IN A NUMBER OF SUCCESSIVE GENERATIONS OF SPIDER MITES (ACARINA).

A P Razumova

*Entomol Rev* 46(2, APR-JUN):159-161

1967 421 R322AE

Acarina, Biological control (insects), Diapause, Environment, Growth factors, Humidity, Insect breeding, Insect ecology, Insect genetics, Insect growth, Insect physiology, Panonychus ulmi, Photoperiodism, Temperature, Tetranychidae. Translated from the Russian.

1462-69

THE EFFECTS OF JUVENILE HORMONE ANALOGUES ON THE EMBRYONIC DEVELOPMENT OF SILKWORMS.

L M Riddiford C M Williams

*Nat Acad Sci Proc* 57(3):595-601 REF

Mar 1967 500 N21P



Analogs, Embryology, Hyalophora eecroptia, Insect growth inhibitors, Insect morphology, Juvenile hormone, Pyrrhocoris apterus.

1463-69

CONSTITUTION OF A COMPOUND WITH A PRONOUNCED JUVENILE HORMONE ACTIVITY.

M Romanur K Slama F Sornu

Nat Acad Sci Proc 57(2):349-352 REF

Feb 1967 500 N21P

Analogs, Chemical analysis, Juvenile hormone, Synthesis.

1464-69

THE EVOLUTIONARY SIGNIFICANCE OF ROTATION OF THE OOTHECA IN THE BLATTARIA.

I. M Roth

Psyche 74(2):85-103 REF

Jun 1967 421 P95

Blattidae, Catalogs, Insect evolution, Insect morphology, Oothecae, Oviposition.

1465-69

A SIMPLE REARING CONTAINER FOR DROSOPHILA.

A Rothschild W V Eisenberg A W Vazquez

J Hered 59(2,MAR-APR):98

Apr 1968 442.8 AM3

Diet, Drosophila, Insect rearing, Insect rearing equipment.

1466-69

ACTIVITIES OF RESPIRATORY ENZYMES DURING THE METAMORPHOSIS OF THE FACE FLY, MUSCA AUTUMNALIS DE GEER.

P G Rousell

N Y Entomol Soc J 75(3):119-125 REF

Sep 1967 420 N48J

Biochemistry, Enzymes, Insect respiration, Metamorphosis, Musca autumnalis.

1467-69

EPIZOOTIOLOGY OF TRYPANOSOMA CRUZI IN SOUTHWESTERN NORTH AMERICA. XII. DOES GAUSE'S RULE APPLY TO THE ECOTOPARASITIC TRIATOMINAE (HEMIPTERA: REDUVIIDAE) (KINETOPLASTIDAE: TRYPANOSOMIDAE) (RODENTIA: CRICETIDAE).

R E Ryckman J V Ryckman

J Med Entomol 4(3):379-386 REF

10 Aug 1967 421 J828

Ecology, Epizootic diseases, Parasitism, Reports, Trypanosoma cruzi.

1468-69

THE HOMOLOGIES OF THE FEMALE GENITALIA IN THE PENTATOMOIDEA (HEMIPTERA-HETEROPTERA).

C W Schaefer

N Y Entomol Soc J 76(2):87-91

Jun 1968 420 N48J

Insect morphology, Pentatomidae, Reproductive organs.

1469-69

HYDROCYANIC ACID IN THE DEFENSE SECRETION OF THE GEOPHILID PACHYMERIUM FERRUGINEUM. COMMUNICATION ON ARTHROPOD PROTECTIVE SUBSTANCES. (GE)

H Schildknecht U Maschwitz D Krauss

Naturwissenschaften 55(5):230 REF

May 1968 474 N213

Chilopoda, Hydrocyanic acid, Insect biochemistry, Insect histology, Insect protective devices, Secretion.

1470-69

ON THE EVOLUTION OF CARABIDS' SCENT GLAND SECRETION. ON ARTHROPOD DEFENSE SUBSTANCES. (GE)

H Schildknecht U Maschwitz H Winkler

Naturwissenschaften 55(3):112-117 REF

Mar 1968 474 N213

Carabidae, Catalogs, Insect biochemistry, Insect evolution, Insect morphology, Insect protective devices, Scent glands, Toxicology

1471-69

MORPHOLOGICAL ASPECTS OF THE DEVELOPMENT IN VITRO OF THE IMAGO DISCS OF DROSOPHILA. (FR)

P Sengel P Mandaron

Acad Sci Compt Rend Ser D Sci Nat 268(2, 1ST SEMESTER):405-407 REF

13 Jan 1969 505 P21

Drosophila melanogaster, Insect morphology, Metamorphosis, Tissue culture.

1472-69

BIONOMY OF THE AFRO-EUROPEAN APIS IN BRAZIL. (POR)

R M B da Silva W N Scott

Bol Indus Anim 24(1):199-208

1967 49 R324

Apis mellifera, Insect behavior, Insect ecology, Insect physiology, English abstract

1473-69

SPECIFIC GRAVITY OF HONEY FROM AFRICANIZADAS BEES. (POR)

R M B da Silva

Bol Indus Anim 24(1):219-222

1967 49 R324

Apiculture, Apis mellifera, Crop yields, Density, Honey, English abstract

1474-69

THE INFLUENCE OF SPACING BETWEEN HONEYCOMBS ON PRODUCTIVITY OF MOVABLE FRAME HIVE. (POR)

R M B da Silva

Bol Indus Anim 24(1):209-217

1967 49 R324

Apiculture, Apis mellifera, Crop yields, Honey, English abstract

1475-69

SPECTROMETRIC IDENTIFICATION OF INSECT SEX ATTRACTANTS.

R M Silverstein

J Chem Educ 45(12):794-797 REF

Dec 1968 381 J826

Attageneus megatoma, Biochemistry, Dendroctonus brevicornis, Insects, Ips confusus, Methodology, Pheromones, Sex attractants, Spectrometry.

1476-69

ACCLIMATION TO LOW TEMPERATURES IN TRIBOLIUM CONFUSUM DUVAL (COL., TENEBRIONIDAE).

L Somme

Norsk Entomol Tidsskr 15(2):134-136 REF

1968 421 N812

Insect temperature, Mortality, Tribolium confusum.

The mortality rate of adult Tribolium confusum subjected to zero degrees centigrade decreases sharply if the insects are first acclimated to 12 degrees C for four days, however there is no increased metabolic rate in the cold acclimated individuals as is the case in some other insects.

1477-69

STUDIES IN AGING. III. THE PHYSIOLOGICAL EFFECTS OF INJECTING HEMOLYMPH FROM OUTBRED DONORS INTO INBRED HOSTS IN DROSOPHILA MELANOGASTER.

K C Sondhi

Nat Acad Sci Proc 57(4):965-971 REF

Apr 1967 500 N21P

Drosophila melanogaster, Fertility, Hemolymph, Insect physiology, Longevity.

1478-69

NERVOUS SYSTEM OF THE HEAD OF PRODENIA LITURA (LEPIDOPTERA, NOCTUIDAE).

B B L Srivastava

Zool Pol 17(4):315-322

1967 410 Z712

Head, Insect morphology, Nervous system, Prodenia litura.

1479-69

HEAD NERVES OF THE LARVA OF PRODENIA LITURA FABR. (LEPIDOPTERA, NOCTUIDAE).

B B L Srivastava

Zool Pol 17(4):345-355 REF

1967 410 Z712

Head, Insect morphology, Larvae, Nervous system, Prodenia litura.

1480-69

A METHOD OF ESTIMATING THE SIZE OF NATIVE POPULATIONS OF ORIENTAL, MELON, AND MEDITERRANEAN FRUIT FLIES, TO ESTABLISH THE OVERFLOODING RATIOS REQUIRED FOR STERILE-MALE RELEASES.

I. F Steiner

J Econ Entomol 62(1):4-7

17 Feb 1969 421 J822

Biological control (insects), Ceratitis capitata, Dacus cucurbitae, Dacus dorsalis, Insect traps, Population, Sterility.

1481-69

A VIRUS DISEASE IN CHIRONOMUS PLUMOSUS.

D B Stoltz W L Hilsenhoff H F Stich

J Invertebrate Pathol 12(1):118-128 REF

Oct 1968 421 J826

Chironomus plumosus, Cytology, Deoxyribonucleic acid, Electron microscopy, Fat body, Illustrations, Insect diseases, Iridescent virus, Larvae, Virus diseases (insects).

1482-69

THE GENITAL ORGANS OF THE NORTHERN SPECIES OF THE GENUS ALEOCHARA GRAY. (COL., STAPHYLINIDAE). (GE)

A Strand A Vik

Norsk Entomol Tidsskr 15(2):105-110

1968 421 N812

Insect morphology, Reproductive organs, Staphylinidae.

1483-69

OBSERVATIONS ON THE INFRASTRUCTURE OF THE CRYSTALLINE CELLS IN THE EYE OF THE PHASMOD CARAUSIUS MOROSUS BR. ARE THESE CELLS MADE OF SIMPLE DIOPTRIC ELEMENTS. (FR)

J Such

Acad Sci Compt Rend Ser D Sci Nat 268(2, 1ST SEMESTER):356-359

13 Jan 1969 505 P21

Carausius morosus, Electron microscopy, Eyes, Insect histology.

1484-69

METAMORPHOSIS IN THE INSECT WORLD. (GE)

A Suchantke

80P REF STUTTGART, WEST GERMANY,

VERLAG FREIES GEISTESLEBEN

1965 QL494.5 S8

Arthropoda, Bees, Entomology, Insect anatomy, Insect physiology, Insects, Metamorphosis, Vertebrates.

1485-69

A CASE OF BACTERIAL EPIZOOTY IN A LARVAL POPULATION OF SELENEPHERE LUNIGERA ESP. (LEPIDOPTERA, LASIOPIDAE).

G B Talalayeva

Entomol Rev 46(2 APR-JUN):191-192

1967 421 R322AE

Bacillus thuringiensis, Bacterial diseases (insects), Epizootic diseases, Larvae, Lasiocampidae, Tahles (data). Translated from russian.

1486-69

CONTRIBUTION TO THE STUDY OF TEMPERATURE AND HUMIDITY FACTORS ON THE DURATION OF THE EMBRYONIC

**DEVELOPMENT OF THE COLLEMBOLA HYPOGASTRURIDAE. (FR)**

J M Thihaud  
*Rev Ecol Biol Sol* 5(1):55-62 REF  
Jan 1968 S590.R4

Collembola, Embryos, Humidity, Hypogastruridae, Insect physiology, Research, Tables (data), Temperature. Six species of Hypogastruridae are studied.

1487-69

**MODE OF LIFE AND DIFFICULTIES IN THE REARING OF SCOPULA UMBELARIA HBN. (LEP. GEOM.). (GE)**

E Urhahn  
*Entomol Gesell Basel* 15(NOV-DEC):85-89  
1965 QL461.E58

Caterpillars, Geometridae, Hibernation, Insect behavior, Insect nutrition, Insect rearing, Insect temperature, Scopula umbelaria, Zoogeography.

1488-69

**THE CONSUMPTION AND UTILIZATION OF FOOD BY INSECTS.**

G P Waldhauser  
*Advances Insect Physiol* 5:229-288 REF  
1968 420 AD9

Diet, Digestion, Energy, Environment, Food consumption, Insect nutrition, Insect physiology, Insects.

1489-69

**COLONIZATION OF CULEX SALINARIUS IN THE LABORATORY.**

R C Wallis L Whitman  
*Mosquito News* 28(3):366-368  
Sep 1968 421 M85

Culex, Insect biology, Insect colonization, Insect food, Photoperiodism.

1490-69

**THE OCCURRENCE OF MYCOSIS IN MOSQUITOES. (GE)**

J Weiser D Novak  
*Entomophaga Menn Hors Ser* (2):149-150  
1964 421 EN835M

Culex pipiens, Culicidae, Hibernation. English summary.

1491-69

**THE NERVOUS CONTROL OF INSECT FLIGHT AND RELATED BEHAVIOR.**

D M Wilson  
*Advances Insect Physiol* 5:289-338 REF  
1968 420 AD9

Aceridae, Aerodynamics, Insect behavior, Insect flight, Insect physiology, Lepidoptera, Nervous system, Odonata, Temperature, Wings (insects).

1492-69

**HORMONAL TERMINATION OF LARVAL DIAPAUSE IN DERMACENTOR ALBIPICTUS.**

J E Wright  
*Science* 163(3865):390-391  
24 Jan 1969 470 SC12  
Dermacentor albipictus, Diapause, Hormones, Insect morphology, Larvae.

1493-69

**ON SOME FIBRIN-LIKE PROPERTIES OF THE SECRETION PRODUCTS OF THE SALIVARY GLAND OF THE CHIRONOMUS LARVA.**

H Yoshimatsu M Uehara  
*Annal Zool Jap* 41(3):107-112 REF  
Sep 1968 410 AN79  
Chironomus, Insect physiology, Larvae, Proteins, Salivary glands (insects), Secretion.

1494-69

**STUDY OF THE CORPUS LUTEUM IN INSECT OVARIES BY FLUORESCENCE MICROSCOPY.**

I A Yurgenson V S Teplykh  
*Entomol Rev* 46(2 APR-JUN):174-178 REF  
1967 421 R322AE  
Corpus luteum, Fluorescence microscopy, Histochemistry, Insect morphology, Insect

physiology, Ovaries, Oviposition, Population. Translated from Russian.

GENETICS

1495-69

**BIOLOGICAL CONTROL OF INSECTS. (PE)**

A Afshar H Kayvanfar  
*Tehran Univ Vet Fac J* 24(2):128-131,134  
Apr 1968 41.9 T23

Biological control (insects), Insect genetics, Reproduction. English summary.

1496-69

**ALLOMORPHIC GROWTH PATTERNS IN RELATION TO SEX-LIMITED POLYMORPHISM IN SOME MYCOPHAGOUS TUBULIFERA (THYSANOPTERA).**

T N Ananthakrishnan  
*Cur Sci* 37(20):577-578  
20 Oct 1968 475 SC123

Insect genetics, Insect morphology, Insect physiology, Polymorphism, Thysanoptera.

1497-69

**GENETICS OF NATURAL POPULATIONS. XXXIX. A TEST OF THE POSSIBLE INFLUENCE OF TWO INSECTICIDES ON THE CHROMOSOMAL POLYMORPHISM IN DROSOPHILA PSEUDOOBSCURA.**

W W Anderson C Oshima T Watanabe T Dohzhansky O Pavlovsky  
*Genetics* 58(3):423-434 REF  
Mar 1968 442.8 G28

Chromosomes, Dielirin, DDT, Drosophila pseudoobscura, Insect control, Insect genetics, Polymorphism, Population.

1498-69

**CHROMOSOMAL POLYMORPHISM IN DROSOPHILA TETRACHAETA.**

D S Angus  
*J Hered* 59(5,SEP-OCT):289-299 MAP REF  
Oct 1968 442.8 AM3

Chromosomes, Cytogenetics, Drosophila, Insect genetics, Polymorphism.

A cytological examination of Drosophila tetrachaeta chromosomes has revealed many inversions of a highly polymorphic population.

1499-69

**WHITE EYE, A NEW SEX-LINKED MUTANT OF AEDES AEGYPTI.**

S C Bhalla  
*Mosquito News* 28(3):380-385 REF  
Sep 1968 421 M85

Aedes aegypti, Eyes, Insect biochemistry, Insect genetics, Ommochromes, Synthesis.

1500-69

**KARYOTYPIC STABILITY AND SPECIATION IN HAWAIIAN DROSOPHILA.**

H L Carson F E Clayton H D Stalker  
*Nat Acad Sci Proc* 57(5):1280-1285 REF  
May 1967 500 N21P

Chromosomes, Drosophila, Insect genetics, Insect morphology, Salivary glands (insects).

1501-69

**SELECTION FOR AND AGAINST GREGARIOUSNESS IN THE CHOICE OF OVIPOSITION SITES OF THE DROSOPHILA PSEUDOOBSCURA.**

E Del Solar  
*Genetics* 58(2):275-282 REF  
Feb 1968 442.8 G28

Drosophila pseudoobscura, Genes, Insect behavior, Insect eggs, Insect genetics, Insect morphology, Oviposition.

1502-69

**MEIOSIS IV: SEGREGATION FROM INTERCHANGE MULTIVALENTS AS A MARKOV PROCESS.**

L T Douglas

*Genetica* 39(3-4):429-455 REF  
1968 442.8 G282

Drosophila melanogaster, Insect genetics, Markov chains, Mathematical analysis, Meiosis.

1503-69

**MEIOSIS V: MATRIC AND PATH COEFFICIENT SOLUTIONS OF TRI- AND QUADRI-VALENTS.**

L T Douglas  
*Genetica* 39(3-4):456-496 REF  
1968 442.8 G282

Chromosomes, Drosophila melanogaster, Insect genetics, Mathematical analysis, Meiosis.

1504-69

**SMALL-ANTENNA, A SEX-LINKED MUTANT OF AEDES AEGYPTI.**

M A Dunn G B Craig  
*J Hered* 59(2,MAR-APR):131-140 REF  
Apr 1968 442.8 AM3

Aedes aegypti, Antennae, Chromosomes, Insect anatomy, Insect genetics, Mutation.

1505-69

**SEX-RATIO DEPRESSION AS A BROOD-PATTERN CRITERION OF RADIATION DAMAGE IN DROSOPHILA MELANOGASTER.**

A Hannah-Alava  
*Genetica* 39(3-4):519-543 REF  
1968 442.8 G282

Drosophila melanogaster, Insect genetics, Insect mutation, Radiation, Sex ratios.

1506-69

**EVIDENCE FOR SPERM DYSFUNCTION AS THE MECHANISM OF SEGREGATION DISTORTION IN DROSOPHILA MELANOGASTER.**

D L Hartl Y Hiraizumi J F Crow  
*Nat Acad Sci Proc* 58(6):2240-2245 REF  
Dec 1967 500 N21P

Cytogenetics, Demography, Drosophila melanogaster, Insect genetics.

1507-69

**EVIDENCE AGAINST THE MUTAGENIC EFFECTS OF VIBRATION ON DROSOPHILA MELANOGASTER.**

J F Kidwell M M Kidwell  
*J Hered* 59(4,JUL-AUG):231-234 REF  
Aug 1968 442.8 AM3

Drosophila melanogaster, Insect genetics, Insect mutation, Vibration.

This paper describes a series of experiments designed to investigate the effect of selected combinations of amplitude, frequency and duration of vibration on the induction of point mutations, primary non-disjunction in females and crossing over in males in Drosophila melanogaster.

1508-69

**HOMEOTIC WING STRUCTURE IN THE LOBOID-ALLELE OPHTHALMOPTERA (LDOP) IN DROSOPHILA MELANOGASTER. (GE)**

H R Kobel  
*Genetica* 39(3-4):329-344 REF  
1968 442.8 G282

Alleles, Drosophila melanogaster, Eyes, Insect genetics, Insect morphology, Insect mutation, Wings (insects). English abstract

1509-69

**FREQUENCY-DEPENDENT SELECTION AT THE ESTERASE 6 LOCUS IN DROSOPHILA MELANOGASTER.**

K I Kojima K M Yarrhough  
*Nat Acad Sci Proc* 57(3):645-649  
Mar 1967 500 N21P

Alleles, Demography, Drosophila melanogaster, Electrophoresis, Esterases, Insect genetics, Polymorphism.

1510-69

**PHENODEVIANTS AND THE CHROMOSOME FIELD THEORY IN DROSOPHILA.**

G L Lee  
*Genetica* 39(3-4):379-384



- 1968 442.8 G282  
Chromosomes, Development, *Drosophila melanogaster*, Insect genetics, Insect mutation.
- 1511-69**  
**TEMPERATURE SENSITIVITY OF SEGREGATION-DISTORTION IN *DROSOPHILA MELANOGASTER*.**  
E J Mange  
*Genetics* 58(3):399-413 REF  
Mar 1968 442.8 G28  
Chromosomes, *Drosophila melanogaster*, Genes, Insect genetics, Meiosis, Temperature.
- 1512-69**  
**CHROMOSOME STUDIES IN THE GENUS *NABIS* LT. (HETEROPTERA, NABIDAE).**  
M Mikolajski  
*Zool Pol* 17(4):323-343 REF  
1967 410 Z712  
Chromosomes, Insect genetics, Microscopy, Mutation, *Nabis*.
- 1513-69**  
**SALIVARY GLAND CHROMOSOME VARIATION IN THE *DROSOPHILA AFFINIS* SUBGROUP. I. THE C CHROMOSOME OF WESTERN AND EASTERN *DROSOPHILA ATHABASCA*.**  
D D Miller R A Voelker  
*J Hered* 59(2,MAR-APR):87-98  
Apr 1968 442.8 AM3  
Chromosomes, *Drosophila*, Insect genetics, Mutation, Salivary glands (insects).
- 1514-69**  
**SEX CHROMATIN OF THE GYPSY MOTH *LYMANTRIA DISPAR* AND THE MEAL MOTH *EPHESTIA KUEHNIELLA*. (GE)**  
G C Moshacher W Traut  
*Naturwissenschaften* 55(7):349-350  
Jul 1968 474 N213  
Chromatin, *Ephestia*, Insect biochemistry, Insect genetics, *Lymantriidae*, Sex determination.
- 1515-69**  
**THE REPLICATIVE ORGANIZATION OF DNA IN POLYTENE CHROMOSOMES OF *DROSOPHILA HYDEI*.**  
M P Mulder P Van Duijn H J Gloor  
*Genetica* 39(3-4):385-428 REF  
1968 442.8 G282  
Chromosomes, Deoxyribo-nucleic acid, *Drosophila hydei*, Insect genetics, Radioactive tracers, Salivary glands (insects).
- 1516-69**  
**SEX CHROMATIN OF A LOCUST. (GE)**  
W Nagl  
*Naturwissenschaften* 55(3):138  
Mar 1968 474 N213  
Acrididae, Chromatin, Chromosomes, Insect genetics, Sex determination.
- 1517-69**  
**A MOLECULAR APPROACH TO THE STUDY OF GENIC HETEROZYGOSITY IN NATURAL POPULATIONS, III. DIRECT EVIDENCE OF COADAPTATION IN GENE ARRANGEMENTS OF *DROSOPHILA*.**  
S Prakash R C Lewontin  
*Nat Acad Sci Proc* 59(2):398-405 REF  
Feb 1968 500 N21P  
Chromosomes, *Drosophila pseudoobscura*, Electrophoresis, Enzymes, Insect genetics.
- 1518-69**  
**A CONTRIBUTION TO THE GENETIC FINE STRUCTURE OF THE REGION ADJACENT TO WHITE IN *DROSOPHILA MELANOGASTER*.**  
R E Rayle M M Green  
*Genetica* 39(3-4):497-507  
1968 442.8 G282  
Alleles, Chromosomes, *Drosophila melanogaster*, Insect genetics, Salivary glands (insects).
- 1519-69**  
**GENETIC VARIABILITY IN THE GERMAN COCKROACH. III. EYE COLOR TRAITS AND LINKAGE DATA FOR THE CURLY, HOODED AND PALLID MUTANTS.**  
M H Ross D G Cochran  
*J Hered* 59(2,MAR-APR):105-110 REF  
Apr 1968 442.8 AM3  
*Blattella germanica*, Color, Eyes, Insect genetics, Insect mutation.
- 1520-69**  
**NONAUTONOMY IN DIFFERENTIATION OF PATTERN-DETERMINING GENES IN *DROSOPHILA*. I. THE SEX COMB OF EYELESS-DOMINANT.**  
C Stern C Tokunaga  
*Nat Acad Sci Proc* 57(3):658-664  
Mar 1967 500 N21P  
*Drosophila melanogaster*, Genes, Insect genetics, Mutation.
- 1521-69**  
**TEMPERATURE-SENSITIVE MUTATIONS IN *DROSOPHILA MELANOGASTER*. I. RELATIVE FREQUENCIES AMONG GAMMA-RAY AND CHEMICALLY INDUCED SEX-LINKED RECESSIVE LETHALS AND SEMILETHALS.**  
D T Suzuki L K Piternick S Hayashi M Tarasoff D Baillie Et Al  
*Nat Acad Sci Proc* 57(4):907-912 REF  
Apr 1967 500 N21P  
*Drosophila melanogaster*, Insect genetics, Lethal factor, Mutation, Temperature.
- 1522-69**  
**MORE ALLELISM TESTS IN HONEY BEES BY COMPOUND INSEMINATIONS.**  
K W Tucker H H Laidlaw  
*J Hered* 59(2,MAR-APR):145-146  
Apr 1968 442.8 AM3  
Alleles, *Apis mellifera*, Color, Eyes, Insect genetics, Insemination.  
New alleles for eye color in *Apis mellifera* were located by use of the compound insemination technique.
- 1523-69**  
**BARRIERS TO GENE FLOW IN NATURAL POPULATIONS OF GRASSHOPPERS. I. THE BLACK CANYON OF THE GUNNISON RIVER AND *ARPHIA CONSPERSA*.**  
R B Willey R L Willey  
*Psyche* 74(1):42-57 MAP  
Mar 1967 421 P95  
Demography, Genes, Grasshoppers, Insect genetics, Insect populations, Zoogeography.
- 1524-69**  
**THE INFLUENCE OF SELECTION AND MATING SYSTEMS ON LARVAL WEIGHT IN *TRIBOLIUM*.**  
S P Wilson P V Blair W H Kyle A E Bcll  
*J Hered* 59(5,SEP-OCT):313-317  
Oct 1968 442.8 AM3  
Demography, Insect breeding, Insect genetics, Insect physiology, Larvae, *Tribolium castaneum*.  
Population genetic experiments show an increase in larval weight with mass selection and a decrease in larval weight with only one of five mating schemes--that of inbreeding.
- 1525-69**  
**ADAPTIVE CHROMOSOMAL POLYMORPHISM AND FLEXIBLE CONTROL OF RECOMBINATION BY PHRYNE CINCTA (DIPTERA, NEMATOCERA). (GE)**  
B E Wolf  
*Zool Beir* 14(1-2):125-153 REF  
1968 410 Z753  
Chromosomes, Diptera, Insect cytology, Insect genetics, Polymorphism. English abstract
- 1526-69**  
**THE USE OF HELICOPTERS IN MOSQUITO CONTROL IN LOUISIANA.**  
C H Anderson  
*Mosquito News* 28(3):326-328  
Sep 1968 421 M85  
Aerial insect control, *Culicidae*, Helicopters, Insect control.  
Immediate inspection of mosquito breeding sites, efficient ULV spraying and personnel transportation are discussed as advantages of helicopter use in Louisiana's mosquito control program.
- 1527-69**  
**THE EFFECTIVENESS OF REPELLENTS ON CLOTH AS DETERMINED BY OVIPOSITION OF *AEDES AEGYPTI* L.**  
M Bar-Zeev D Ben-Tamar  
*Mosquito News* 28(3):396-403  
Sep 1968 421 M85  
*Aedes aegypti*, Biological assay, Deet, Insect repellents, Oviposition.
- 1528-69**  
**A FIELD EVALUATION OF ABATE BRIQUETTES IN WOODLAND POOLS.**  
W W Barnes A B Wehh  
*Mosquito News* 28(3):458-461  
Sep 1968 421 M85  
Abate, *Aedes canadensis*, Aquatic insects, Chemical control (insects), DDT, Lindane, Ponds, Seasonal variation.
- 1529-69**  
**TESTS OF THE SUSCEPTIBILITY OF FLORIDA MOSQUITOES TO INSECTICIDES, 1967.**  
A H Boike C B Rathhurn  
*Mosquito News* 28(3):313-316  
Sep 1968 421 M85  
*Aedes*, *Culex*, Insecticides, Larvae, Malathion, Naled.  
The resistance of several species of *Culex* and *Aedes* to malathion and naled is discussed.
- 1530-69**  
**ANALYSIS OF COMPARATIVE EFFECTS OF SELECTED CO<sub>2</sub> FLOW RATES ON MOSQUITOES USING CDC LIGHT TRAPS.**  
R R Carestia K O Horner  
*Mosquito News* 28(3):408-411 MAP  
Sep 1968 421 M85  
*Aedes*, *Anopheles*, Attractants, Carbon dioxide, *Culex*, Insect collecting equipment, Light traps.
- 1531-69**  
**AN APPARENT INHIBITION PHENOMENON IN ANOPHELINE MOSQUITOES INFECTED WITH SINDBIS VIRUS.**  
W E Collins A J Harrison  
*Mosquito News* 28(3):421-424  
Sep 1968 421 M85  
*Anopheles*, Disease transmission, Inhibitors, Insect vectors, Mice, Sindbis virus.
- 1532-69**  
**IMPORTANCE OF PESTICIDES IN PREVENTIVE MEDICINE.**  
P C C Garnham  
*Roy Soc Proc Ser B, Biol Sci* 167(1007):134-140 REF  
21 Feb 1967 501 L84B  
Chemical control (insects), Chlorinated hydrocarbons, Dieldrin, DDT, Human diseases, Insect vectors, Insecticides, Lindane, Preventive medicine.
- 1533-69**  
**A BIOASSAY METHOD FOR MEASURING MOSQUITO LARVICIDE DEPOSITIONS.**  
P A Gillies D J Womeldorf J D Walsh  
*Mosquito News* 28(3):415-421  
Sep 1968 421 M85  
Biological assay, Chemical control (insects), *Culicidae*, Fenthion, Insect mortality, Larvae, Larvicides, Methodology, Parathion.

1534-69

**PAPULAR ERUPTION SECONDARY TO THIRIPS BITES.**

N Goldstein G B Skipworth

*Jama (J Amer Med Ass)* 203(1):53-55

01 Jan 1968 448 9 AM37

Epidemiology, Human diseases, Insect pests, Skin, Symptomatology, Thrips.

1535-69

**THE ROLE OF CONVECTION CURRENTS IN MOSQUITO ATTRACTION TO HUMAN SKIN.**

A A Khan H I Maibach W G Strauss

*Mosquito News* 28(3):462-464

Sep 1968 421 M85

*Aedes aegypti*, Attractants, Host relationships, Humans, Skin, Temperature

1536-69

**MOSQUITO CONTROL IN CAPE MAY COUNTY THROUGH WATER LEVEL STABILIZATION.**

B M Lafferty

*Mosquito News* 28(3):416-419

Sep 1968 421 M85

*Aedes sollicitans*, *Culex pipiens*, Cultural control (insects).

The installation of pumps to stabilize the water level in marshes in New Jersey for control of *Aedes sollicitans* and *Culex pipiens* is discussed.

1537-69

**CHLOROQUINE: RETENTION BY ANOPHELES STEPHENSI AFTER INGESTION IN A BLOOD MEAL.**

B W Langer I C Rutledge D J Gould

*Mosquito News* 28(3):455-458 REF

Sep 1968 421 M85

*Anopheles stephensi*, Blood meal, Chloroquine, Insect biochemistry, Insect physiology, Plasmodium.

1538-69

**RESIDUAL ACTIVITY OF SEVERAL NEW INSECTICIDES TO ADULT ANOPHELES QUADRIMACULATUS IN ADOBE-LINED EXPERIMENTAL HUTS.**

W Mathis H F Schoof

*Mosquito News* 28(3):412-415

Sep 1968 421 M85

*Anopheles quadrimaculatus*, Bromophos, Chemical control (insects), Diethyl 03,5,6-trichloro-2-pyridyl phosphorothioate, 0,0-, Epn, Insecticide residual activity, Insecticides, Isopropoxyphenyl methylcarbamate, o-, Mobam.

1539-69

**THE BIONOMICS OF A MERMITHID NEMATODE OF LARVAL MOSQUITOES IN SOUTHWESTERN LOUISIANA.**

J J Petersen H C Chapman D B Woodard

*Mosquito News* 28(3):346-352 REF

Sep 1968 421 M85

Catalogs, Culiidae, Ecology, Host relationships, Insect nematodes, Mermithidae, Nematode morphology.

1540-69

**EXPERIMENTAL STUDIES ON THE MECHANICAL TRANSMISSION OF CHIKUNGUNYA VIRUS BY AEDES AEGYPTI.**

T R Rao S D Paul K R P Singh

*Mosquito News* 28(3):406-408

Sep 1968 421 M85

*Aedes aegypti*, Chikungunya virus, Disease transmission, Epidemiology, Human diseases, Insect vectors.

1541-69

**SUSCEPTIBILITY TO INSECTICIDES OF CERTAIN ANOPHELES SPECIES ACCORDING TO THE TIME OF CATCH AND TESTING.**

A M Shalaby

*Mosquito News* 28(3):390-396 MAP

Sep 1968 421 M85

*Anopheles*, Chemical control (insects), Dieldrin, DDT, Insecticide resistant insects, Temperature.

1542-69

**INITIAL AND RESIDUAL ACTIVITY OF CIDEAL (PHENTHOATE) AGAINST MOSQUITOES AS COMPARED WITH THAT OF OTHER WELL-KNOWN PRODUCTS.**

G Tomasnecci G Micheli

*Mosquito News* 28(3):430-441

Sep 1968 421 M85

Chemical control (insects), Dieldrin, Fenitrothion, Heptachlor, Insecticide residues, Larvicides, Malathion, Phenthoate.

The author discusses the comparative initial and residual effects of nine insecticides on species of *Culex*, *Aedes* and *Anopheles* mosquitoes.

1543-69

**THE HELICOPTER AS AN ECONOMICAL SPRAYER.**

D C White B A Fentem

*Mosquito News* 28(3):331-332

Sep 1968 421 M85

Aerial spraying, Chemical control (insects), Culiidae, Economics, Helicopters.

## CROP PROTECTION

1544-69

**BIOLOGICAL CONTROL OF INTRODUCED FOREST INSECT PESTS.**

*Can Dep Forest Forest Prod Res Br Res News*

11(5,SEP,OCT):11

1968 99.9 C1625F

*Adelges piceae*, Aphidecta obliterata, Biological control (insects), Forest insects, Insect pests, Leucopis, Olesicampe, Parasitic insects, Predaceous insects, Pristiphora erichsonii.

1545-69

**ATKINSON, A ROOTKNOT AND FUSARIUM WILT RESISTANT TOMATO VARIETY OF THE RUTGERS CLASS.**

W H Greenleaf

*Hortsci* 2(2,SUMMER):60-61

1967 SB1.H6

Crop varieties, Fungus diseases (plants), Fusarium, Plant disease resistance, Plant nematode resistance, Plant nematodes, Root knot, Tomatoes, Wilt.

1546-69

**ISOLATION OF MICROORGANISMS FROM PRESERVATIVE-TREATED WOOD.**

H L Morton J L Stewart G P Bruneau

*19(1):38-41 REF*

Jan 1969

Bacteria, Culture media, Lumber preservatives, Pentachlorophenol, Pinus ponderosa, Soil microorganisms, Wood decay.

1547-69

**PRINCIPLES OF THE INTEGRATED CONTROL OF PLANT PESTS. (POL.)**

W Romankow

*Ochrone Roslin* 11(6):4-6

1967 464.8 OC32

Insect pests, Insecticides, Integrated control (insects), Plant diseases, Plant protection.

## DISEASES

1548-69

**EFFECTS OF TWO INHIBITORS OF PROTEIN SYNTHESIS ON THE MULTIPLICATION OF TOBACCO MOSAIC VIRUS AND TURNIP YELLOW MOSAIC VIRUS. (FR.)**

J Albouy H Lapierre

*Acad Sci Compt Rend Ser D Sci Nat* 268(1, 1ST

SEMESTER):220-223 REF

06 Jan 1969 505 P21

Chloramphenicol, Cycloheximide, Protein synthesis, Tobacco, Turnips.

1549-69

**IDENTITY OF TOMATO BIG BUD VIRUS AND EGG PLANT LITTLE LEAF VIRUS.**

A Anjaneyulu K Ramakrishnan

*Curr Sci* 37(23):673-674

05 Dec 1968 475 SC123

Big bud, Cranberries, Eggplant, False blossom, Little leaf, Tomatoes.

1550-69

**JOINT ANALYSIS OF EXPERIMENTS WITH COMMON TREATMENTS. (MAR.)**

H V de Arruda F Issa

*Sao Paulo Inst Biol Arq* 35(1, JAN-MAR) 27-32

Mar 1968 442.9 SA6

Beans, Fungus diseases (plants), Statistical analysis, *Uromyces phaseoli*, English abstract.

1551-69

**ON THE SENSITIVITY OF AZOTOBACTER TO SOME ANTIBIOTICS AND HERBICIDES.**

N M Babak

*Microbiology* 37(2,MAR-APR):283-288 REF

Apr 1968 448.3 M582AE

Antibiotics, Azotobacter, Herbicides, Soil microorganisms, Surveys. Russian journal- Mikrobiologiya, vol. 37(2):338-344, Mar-Apr 1968

1552-69

**PREPARATION OF NON-INFECTIOUS ARBOVIRUS ANTIGENS BY PHOTODYNAMIC INACTIVATION.**

K Bamerjee C N Dandawate

*Curr Sci* 37(19):556-557

05 Oct 1968 475 SC123

Antigens, Arboviruses, Chemistry, Photochemistry, Virus diseases (plants).

1553-69

**DEGRADATION OF ALFALFA MOSAIC VIRUS BY PANCREATIC RIBONUCLEASE.**

J F Bol H Veldstra

*Virology* 37(1):74-85 REF

Jan 1969 448.8 V81

Alfalfa, Degradation, Electrophoresis, Mosaic, Proteins, Ribonuclease, Ribonucleic acid, Virology, Virus diseases (plants).

1554-69

**HISTOCHEMICAL LOCALIZATION OF THE SOLUBLE AMINE AND AMINOPEPTIDASE PRODUCTS IN THE NUTRIENT TISSUES OF THE CECIDOMYID GALLS. (FR.)**

R Bronner

*Acad Sci Compt Rend Ser D Sci Nat* 268(5, 1ST

SEMESTER):810-812

03 Feb 1969 505 P21

Amines, Aminopeptidase, Cecidomyiidae, Galium, Histochemistry, Plant galls, Urtica.

1555-69

**PLANT PATHOLOGY IN NEW ZEALAND.**

E E Chamberlain

*Rev Appl Mycol* 48(1):1-10 REF

Jan 1969 450 R328

Fungus diseases (plants), Insect vectors, Plant nematodes, Research, Virus diseases (plants).

1556-69

**A NEW SPECIES OF PHAEOPHLEOSPORA AFFECTING ACHRAS SAPOTA L.**

B Chinnappa

*Curr Sci* 37(19):566

05 Oct 1968 475 SC123

Fungus diseases (plants), Sapodilla, Taxonomy.

1557-69

**ON THE RELEASE OF A PRIMARY ONCOGENIC SUBSTANCE FROM THE TISSUES OF TOBACCO CROWN GALL BY X-RAYS. (FR.)**

M I A D Cunha

*Acad Sci Compt Rend Ser D Sci Nat* 268(2, 1ST

SEMESTER):318-321 REF

13 Jan 1969 505 P21

Agrobacterium tumefaciens, Crown galls, Tobacco, X-rays.



- 1558-69  
SOME EFFECTS OF THE SOUTHERN GREEN STINKBUG ON SOYBEANS.  
R G Duncan J R Walker  
*Lat Agr* 12(2,WINTER):10  
1968 100 L939  
Crop yields, Insect pests, *Nezara viridula*, Pentatomidae, Plant physiology, Soybeans, Statistical analysis, Tables (data).
- 1559-69  
EXTRACTION, ASSAY AND PARTIAL PURIFICATION OF A FACTOR FROM TUMOROUS LEAVES THAT PROMOTES CROWN-GALL TUMOR GROWTH.  
M D El Khalifa J A Lippincott  
*Physiol Plant* 21(4):742-753  
25 Jul 1968 450 P564 (1)  
*Agrobacterium tumefaciens*, Crown galls, Kidney beans, Plant extracts.
- 1560-69  
A NOTE ON TWO ISOLATES OF RHIZOCTONIA SOLANI KUHN FROM WHEAT.  
E Elmur C G C Chesters  
*Plant Pathol* 16(3):104-107 REF  
Sep 1967 464.8 P692  
Microorganisms, Morphology, Parasitism, Plant diseases, *Rhizoctonia solani*, Wheat.
- 1561-69  
ON THE SPECIFICITY OF METARRHIZIUM ANISOPHIAE (METSCH.) SOROKIN (FUNGI IMPERFECTI) AS A FUNCTION OF ITS INSECT ORIGIN. (FR)  
P Ferron T Diomande  
*Acad Sci Compt Rend Ser D Sci Nat* 268(2, 1ST SEMESTER):331-332  
13 Jan 1969 505 P21  
Fungus diseases (plants), Insect vectors, *Lepidoptarsa decemlineata*, *Metarrhizium*, *Schistocerca gregaria*.
- 1562-69  
VARIETAL RESISTANCE OF EGGPLANT TO VERTICILLIUM WILT. (POR)  
M B Figueiredo B P Bastos Cruz A P da Silveira S G P da Silveira J B Bernardi  
*Sao Paulo Inst Biol Arq* 35(1 JAN-MAR):9-15  
Mar 1968 442.9 SA6  
Crop varieties, Eggplant, Fungus diseases (plants), Plant disease resistance, *Verticillium dahliae*, Wilt. English abstract
- 1563-69  
REPORT OF A STUDY TRIP TO SOME CITRUS AND FRUIT TREE CENTERS IN THE TROPICS AND SUBTROPICS. (DU)  
I E Fong Poen  
*Surinam Dep Landbouw Veteelt Visserij Verst Rap* 65, 89P REF  
May 1968 9.6 D952  
Bibliography, Citrus, Plant diseases. Bibliography, p.62-89.
- 1564-69  
ON THE STRUCTURE OF THE ABNORMAL NOPALINE METABOLITE IN CERTAIN CROWN GALL TUMORS. (FR)  
A Goldmann D W Thomas G Morel  
*Acad Sci Compt Rend Ser D Sci Nat* 268(5, 1ST SEMESTER):852-854  
03 Feb 1969 505 P21  
*Agrobacterium tumefaciens*, Arginine, Crown galls, *Opuntia*, Plant biochemistry, Plant physiology.
- 1565-69  
EFFECT OF INFECTION BY HYPOMYCES SOLANI F. SP. CUCURBITAE ON APPARENT FREE SPACE, CELL MEMBRANE PERMEABILITY, AND RESPIRATION OF SQUASH HYPOCOTYLS.  
J G Hancock  
*Plant Physiol* 43(10):1666-1672 REF  
Oct 1968 450 P692  
Amino acids, Cell wall, *Cucurbita maxima*, Fungus diseases (plants), *Hypocotyls*, *Hypomyces solani*, Lesions, Permeability, Plant physiology, Respiration, Squash, Symptomatology, Tables (data).
- 1566-69  
OAT SEED FUNGI AND THEIR CONTROL.  
I D Hausing A Hartley  
*Ass Off Seed Anal Proc* 56:143-147  
1966 61.9 AS7  
Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Oats, Seed treatment, 50 species of fungi isolated.
- 1567-69  
THE PHYSIOLOGY, INTER-RELATIONSHIPS AND EFFECTS ON THE WOOD OF FUNGI WHICH ATTACK BIRCH AND ASPEN PULP-WOOD.  
B Henningson  
*Acta Univ Upsal Abs Uppsala Diss Sci* (100):10P REF  
1967 1A422.H4  
*Betula pendula*, *Betula pubescens*, Fungus diseases (plants), Microorganisms, Plant hardiness, Plant physiology, *Populus tremuloides*, Storage injuries, Wood destroying fungi.
- 1568-69  
RESISTANCE OF TOMATO LINES TO TMV.  
G E Holecmh G D Lindberg T P Hernandez  
*Lat Agr* 12(1,FALL):14-15  
1968 100 L939  
Crop varieties, Mosaic, Plant breeding, Plant disease resistance, Tobacco, Tomatoes, Virus diseases (plants).
- 1569-69  
STUDY OF PINOCYTOSIS IN THE TISSUES OF THE ROSACEAE LEPTOMONAS CTENOCEPHALI (FR)  
J M Jadin J Creemers  
*Acta Trop* 25(4):363-366  
1968 475 AC8  
Flagella, Microscopy, Morphology, Pinocytosis, Plant diseases, Rosaceae, Trypanosomidae.
- 1570-69  
IS IT WORTH PROTECTING POTATO AGAINST INFECTION. (POL)  
A Jagielski  
*Ochrota Roslin* 11(6):10-12  
1967 464.8 OC32  
Agricultural economics, Plant diseases, Plant protection, Potatoes.
- 1571-69  
VIRULENCE OF VARIOUS GROUPS OF PHYSIOLOGICAL RACES OF LOOSE SMUT OF BARLEY USTILAGO NUDA (JENS.) ROSTR.) IN THE LIGHT OF ANATOMICAL INVESTIGATIONS OF SPRING BARLEY VARIETIES DIFFERENT WITH REGARD TO RESISTANCE. 3. THE EFFECT OF INFECTION UPON MORPHOLOGICAL FEATURES OF PLANTS. (POL)  
W Kozera  
*Hodowla Roshin Aklimatyzacja Nasiennictwo* 11(4):385-408  
1967 64.8 H66  
Barley, Crop varieties, Fungus diseases (plants), Growth factors, Loose smut, Mycelium, Plant disease resistance, Plant morphology, Plant physiology, *Ustilago nuda*. English and Russian summary.
- 1572-69  
LOCALIZATION OF TOBACCO MOSAIC VIRUS PROTEIN IN TOBACCO LEAF CELLS DURING THE EARLY STAGES OF INFECTION.  
W G Langenberg D E Schlegel  
*Virology* 37(1):86-93 REF  
Jan 1969 448.8 V81  
Antibodies, Autoradiography, Cells, Iodine isotopes, Leaves, Mosaic, Proteins, Tobacco, Virology, Virus diseases (plants).
- 1573-69  
OBSERVATIONS ON THE TIMING OF IRRIGATION AND THE INCIDENCE OF POTATO COMMON SCAB (STREPTOMYCES SCABIES).  
D H Lapwood B G Lewis  
*Plant Pathol* 16(3):131-135  
Sep 1967 464.8 P692  
Bacterial diseases (plants), Irrigation, Plant disease control, Potatoes, Soil moisture, *Streptomyces scabies*.
- 1574-69  
INCREASE OF TOBACCO MOSAIC LOCAL LESION SIZE AND VIRUS MULTIPLICATION IN HYPERSENSITIVE HOSTS IN THE PRESENCE OF ACTINOMYCIN D.  
G Loebenstein B Sela I Van Praagh  
*Virology* 37(1):42-48 REF  
Jan 1969 448.8 V81  
Actinomycin d, Antibiotics, Cucumbers, Drug therapy, Kidney beans, Mosaic, Tobacco, Virology, Virus diseases (plants).
- 1575-69  
A NEW VIRUS OF CELERY (APIUM GRAVEOLENS L.) (IT)  
E Luisoni  
*Turin Univ Fac Sci Agr Raccolta Mem* 14(565, 1966-1967):541-544  
1967 105.4 T842  
Celeriac, Celery, Host indexing (plants), Latent virus, *Myzus persicae*, Plant disease transmission, Virus diseases (plants). Herein named celery latent virus; tests with *M. persicae* inconclusive, but sap inoculation successful in 15 species. English summary.
- 1576-69  
RECORD OF VERTICILLIUM WILT OF COTTON IN MADRAS STATE.  
M K Natarajan K Sivaprakasam K Ramakrishnan  
*Madras Agr J* 55(10):455-457  
Oct 1968 22 M262  
Cotton, Eggplant, Fungus diseases (plants), Plant protection, *Verticillium albo-atrum*, Wilt.
- 1577-69  
STUDIES ON SCLEROTIUM ROT OF MINTS.  
V R Pandotra K S M Sastry  
*Ind Acad Sci Proc* 68(1):9-10  
Jul 1968 513 IN25B  
Fungus diseases (plants), *Mentha*, Pathogenicity, *Sclerotium rolfsii*, Symptomatology.
- 1578-69  
JUNCTIONS BETWEEN EPIDERMAL CELLS AS SITES OF APPRESSORIUM FORMATION BY PLANT PATHOGENIC FUNGI.  
T F Preece G Barnes J M Bayley  
*Plant Pathol* 16(3):117-118  
Sep 1967 464.8 P692  
Cauliflower, Cells, Conidia, Erysiphe polygoni, Fungus diseases (plants), Leaves, Microbiology, Peronospora parasitica, Plant injuries, Plant physiology, Red clover.
- 1579-69  
A NEW CERCOSPORA LEAF SPOT OF CARDAMOM.  
G Rangaswami V S Seshadri K A L Channamma  
*Cur Sci* 37(20):594-595  
20 Oct 1968 475 SC123  
*Cercospora*, *Eleutheria cardamomum*, Fungus diseases (plants), Leaf spot, Plant physiology.
- 1580-69  
DEVELOPMENTS IN THE CONTROL OF TEA PESTS.  
G N Rao  
*United Planters Ass Southern India Tea Sci Dep Bull* (26):15-23 REF  
01 Sep 1967 68.19 UN3B  
Chemical control (pests), Economics, Fungicides, Insect pests, Insecticides, Pest control, Plant injuries, Plant protection, Tea.
- 1581-69  
RESEARCH ON THE PHYSIOLOGICAL MODIFICATIONS BROUGHT ABOUT BY THE VIRUS OF TOBACCO MOSAIC IN NORMAL AND TUMOR TISSUE OF TOBACCO GROWN IN VITRO. (FR)  
M Rouchanzamir-Hedjazi

*Rev. Gen. Bot.* 65(886)[887 MAR-APR]:227P REF  
1968 450 R326

Agrobacterium tumefaciens, Crown galls, Ethanolamine, Growth factors, Mosaic, Plant biochemistry, Plant physiology, Plant tissue, Tissue culture, Tobacco, Virus diseases (plants), English summary.

1582-69

#### ALFALFA VARIETY TESTS IN CENTRAL CALIFORNIA.

C A Schonert T S Torngren V L Marble W R Sheesley E F Nourse

*Calif Agr* 21(6):13-15

Jun 1967 100 C12CAG

Acyrtosiphon pisum, Alfalfa, Downy mildew, Plant breeding, Plant disease resistance, Plant dormancy, Plant pest resistance, Therioaphis maculata.

1583-69

#### A NOTE ON THE OCCURRENCE OF WATER-CORE BREAKDOWN IN APPLES DURING 1966.

R O Sharples

*Plant Pathol* 16(3):119-120

Sep 1967 464.8 P692

Apples, Calcium, Fruit, Magnesium, Minerals, Plant diseases, Plant nutrition, Potassium.

1584-69

#### IN VIVO REMOVAL OF PROTEIN FROM TOBACCO MOSAIC VIRUS AFTER INOCULATION OF TOBACCO LEAVES. II. SOME CHARACTERISTICS OF THE REACTION.

J G Shaw

*Virology* 37(1):109-116 REF

Jan 1969 448.8 V81

Cycloheximide, Leaves, Mosaic, Proteins, Ribonucleic acid, Temperature, Tobacco, Virology, Virus diseases (plants).

1585-69

#### VARIETAL RESISTANCE OF COTTON TO FUSARIUM WILT. (POR.)

A P Silveira B P Bastos Cruz S G P Silveira W B Toffano

*Soc. Paulo Inst. Biol. Arq.* 34(1 JAN-MAR):59-68 REF

Mar 1967 442.9 SA6

Cotton, Crop varieties, Fusarium oxysporum vasinfectum, Plant disease resistance, Wilt, English abstract

1586-69

#### EFFECT OF DIFFERENT DATES OF SOWING ON YIELD, DISEASE RESISTANCE AND OTHER CHARACTERISTICS OF AMERICAN COTTON VARIETIES.

K M Simlote R P Bhardwaj

*Indian Agr* 11(2):103-108

Jul 1967 22 IN294

Angular leafspot, Cotton, Crop varieties, Crop yields, Irrigation, Plant disease resistance, Plant morphology, Planting date.

1587-69

#### FREE AMINO-ACIDS IN HEALTHY AND VIRUS-INFECTED CHRYSANTHEMUM.

B P Singh A K Mishra

*Curr Sci* 37(21):619-620 REF

05 Nov 1968 475 SC123

Amino acids, Chrysanthemum, Plant biochemistry, Plant physiology, Virus diseases (plants).

This article discusses the free amino acid contents of tolerant, mildly susceptible and very susceptible chrysanthemums after inoculation with stunt virus. The free amino acid content decreased in direct proportion to the susceptibility of the plants.

1588-69

#### GRASSY SHOOT DISEASE OF SUGARCANE. II HOT-AIR THERAPY.

K Singh

*Curr Sci* 37(20):592-594

20 Oct 1968 475 SC123

Grassy shoot, Heat, Sugarcane, Virus diseases (plants).

1589-69

#### NEW CONTROLS FOR PEACH FUNGUS DISEASES.

J C Taylor N L Horn R S Woodward

*La. Agr.* 12(2, WINTER):12-13

1968 100 I.939

Anthracoise, Brown rot, Citrus, Fungicides, Fungus diseases (plants), Humidity, Peaches, Plant physiology, Rhizopus, Scab, Tables (data), 11 fungicides were tested.

1590-69

#### TRACE ELEMENT STUDIES ON SOME PATHOGENIC FUNGI.

K S Thind C L Mandahar

*Ind. Acad. Sci. Proc.* 68(1):37-51 REF

Jul 1968 513 IN25B

Biochemistry, Fungi, Micronutrients, Microorganisms.

1591-69

#### SCLEROSPORA GRAMINICOLA AXENIC CULTURE.

M M Tiwari H C Arya

*Science* 163(3864):291-293

17 Jan 1969 470 SC12

Cascin hydrolyzates, Culture media, D, 2,4-, Downy mildew, Fungus diseases (plants), Kinetin, Pearl millet, Sclerospora graminicola.

1592-69

#### TROUBLES WITH POTATO BLIGHT. (POL.)

J W.

*Ochrona Roslin* 11(6):19-22

1967 464.8 OC32

Blight, Fungus diseases (plants), Plant protection, Potatoes.

1593-69

#### IRON IN CITRUS PRODUCTION.

E F Wallihan M J Garber

*Calif Agr* 21(6):6-8

Jun 1967 100 C12CAG

Citrus, Deficiency diseases, Dieback, Iron, Oranges, Plant nutrition.

1594-69

#### PHENOLOGICAL OBSERVATIONS ON THE FUNGI OF THE TREES AND SHRUBS IN THE PARK OF THE EXPERIMENTAL FARM KONICZYŃKA NEAR TORUN. (POL.)

E Weber-Czerwinska

*Soc. Sci. Torunensis Stud. Sect. D (bot)* 8(3):96P

REF

1967 451 T65

Climate, Deuteromycetes, Fungus diseases (plants), Mycoflora, Mycology, Parasitism, Plant taxonomy, Saprophytes, Shrubs, Trees, English summary.

1595-69

#### THE BIOSYNTHESIS OF TOBACCO MOSAIC VIRUS RNA: RELATIONSHIPS TO THE BIOSYNTHESIS OF VIRUS-SPECIFIC RIBONUCLEASE-RESISTANT RNA.

J C Woolum G B Shearer B Commoner

*Nat. Acad. Sci. Proc.* 58(3):1197-1204 REF

Sep 1967 500 N21P

Biosynthesis, Plant biochemistry, Ribonuclease, Tobacco mosaic virus.

## ARTHROPODS

1596-69

#### INVESTIGATIONS OF EFFECTS AND EFFECT MECHANISMS OF SEED TREATMENT PREPARATIONS ON LEAF EATING BEETLES.

E S H Abdel-Krim

*Giessen Justus-Liebig- Univ. Landwirt. Fak.* 126P

REF

1967 105.8 G36

Crop varieties, Formulations, Gases, Growth factors, Insecticide application, Insecticides, Phyllotreta, Plant physiology, Roots, Seed treatment, Sitona lineata.

1597-69

#### A PRELIMINARY ACCOUNT OF PESTS OF APPLE IN MADRAS.

F. V. Abraham M. D. Padmanaban

*Madras Agr. J.* 55(10):434-440

Oct 1968 22 M262

Aphelinus mali, Apples, Insect pests, Insecticides, Mites, Organophosphorus compounds, Parasitic insects.

1598-69

#### SWEETCLOVER-WEEVIL FEEDING DETERRENT B: ISOLATION AND IDENTIFICATION.

W R Akeson F A Haskins H J Gorz

*Science* 163(3864):293-294

17 Jan 1969 470 SC12

Ammonium compounds, Chromatography, Feeding, Insect identification, Leaves, Melilotus infesta, Nitrates, Plant pest resistance, Sitona cylindricollis.

1599-69

#### THE RATE OF CROWN FADE OF TREES KILLED BY THE DOUGLAS-FIR BEETLE IN SOUTHWESTERN OREGON.

P G Belluschi N E Johnson

*J. Forest* 67(1):30-32

Jan 1969 99.8 F768

Dendroctonus pseudotsugae, Mortality, Plant injuries, Pseudotsuga menziesii.

1600-69

#### MOVEMENTS OF LARVAE OF ACANTHOSCELIDES OBTECTUS SAY (COL., BRUCHIDAE). I. THE CASE OF A SINGLE LAYER OF GRAIN. (FR.)

Y De Luca

*Entomol. Br.* 28(10):197-199

01 Oct 1968 420 N38B

Acanthoscelides obtectus, Grain, Insect physiology, Larvae, Locomotion.

1601-69

#### MEMBRANE FEEDING AND INFECTIVITY NEUTRALIZATION USED IN A SEROLOGICAL COMPARISON OF POTATO LEAF ROLL AND BEET WESTERN YELLOW VIRUSES.

J E Duffus A H Gold

*Virology* 37(1):150-153 REF

Jan 1969 448.8 V81

Beets, Feeding, Insect vectors, Leaf roll, Myzus persicae, Potatoes, Serological tests, Virology, Virus diseases (plants).

1602-69

#### LIGHT TRAPS AS DETECTION DEVICES FOR MOTHS OF CABBAGE LOOPER AND BOLLWORM.

L A Falcon R van den Bosch L K Etzel C A Ferris

*Calif Agr* 21(7):12-14

Jul 1967 100 C12CAG

Cabbage, Cotton, Heliothis zea, Insect eggs, Insect traps, Larvae, Light traps, Moths, Trichoplusia ni.

1603-69

#### SPRUCE BUDWORM LARVAE DAMAGE WESTERN LARCH CONES AND SEEDS.

D G Fellin R C Shearer

*J. Forest* 66(7):568-570

Jul 1968 99.8 F768

Choristoneura fumiferana, Cones, Larix occidentalis, Larvae, Seeds, Tree injuries.

1604-69

#### APHIDS AND THE INCREASE OF POTATO LEAF ROLL VIRUS IN SEED POTATOES ON THE WOLDS OF THE EAST RIDING OF YORKSHIRE.

J H Fidler J R A Weild G Murdoch

*Plant Pathol* 16(3):97-103

Sep 1967 464.8 P692

Aphididae, Insect vectors, Leaf roll, Potatoes, Seedlings, Virus diseases (plants).

1605-69

#### FOREST TREE AND TIMBER INSECT PESTS IN THE TERRITORY OF PAPUA AND NEW GUINEA.



- B Gray  
*Pacific Insects* 10(2):301-323 REF MAP  
1968 421 P11  
Catalogs, Chemical control (insects), Forest insects, Insect biology, Insect control, Zoogeography.  
A list of 52 insects of economic importance to forests of Papua and New Guinea with notes on their distribution and biology are presented.
- 1606-69**  
**THE OVERWINTERING OF APHIDS AND VIRUSES ON SUGAR BEET SEED CROPS IN ENGLAND, 1963-1966.**  
G D Heathcote  
*Plant Pathol* 16(3):126-130 MAP  
Sep 1967 464.8 P692  
Aphididae, Aphis fabae, Chemical control (insects), Crops, Insect vectors, Insecticides, Myzus persicae, Seedlings, Sugar beets, Virus diseases (plants).
- 1607-69**  
**TREE PHYSIOLOGY AND FOREST PESTS.**  
T T Kozłowski  
*J Forest* 67(2):118-123 REF  
Feb 1969 99.8 F768  
Fungus diseases (plants), Plant metabolism, Plant pests, Plant physiology, Trees.
- 1608-69**  
**AN INFESTATION OF HYACINTH BULBS IN THE PROPAGATING ROOM BY FRANKLINIELLA SCHULTZEI TRYBOM. (DU)**  
W P Mantel  
*Entomol Ber* 28(6):106-108  
01 Jun 1968 420 N38B  
Chemical control (insects), Cyanides, Frankliniella, Fumigants, Hyacinthus. English abstract
- 1609-69**  
**PESTS OF FLOWERING TREES.**  
J Maynard  
*Gardeners Chron* 164(5):20-21  
02 Aug 1968 80 G162  
Insect pests, Ornamental trees, Trees.
- 1610-69**  
**PRELIMINARY RESULTS IN THE CHEMICAL CONTROL OF THE WHITE LOUSE, UNASPIS CITRICOMST., ON CITRUS. (SP)**  
C C Mejia  
*Agr Trop* 24(9):529-535  
Sep 1968 26 AG8  
Chemical control (insects), Citrus, Diaspididae, Endosulfan, Malathion, Phosphamidon.
- 1611-69**  
**BEHAVIOR OF TOBACCO BUDWORM LARVAE ON FLUE-CURED TOBACCO AND POSSIBILITIES OF IMPROVING THE EFFECTIVENESS OF INSECTICIDAL TREATMENTS APPLIED MECHANICALLY FOR CONTROL.**  
W J Mistic F D Smith  
*J Econ Entomol* 62(1):16-21  
17 Feb 1969 421 J822  
Chemical control (insects), Flue-cured tobacco, Heliothis virescens, Insect behavior, Insect pests, Insecticides, Larvae, Spraying, Zoogeography.
- 1612-69**  
**PRELIMINARY TRIAL WITH SEVEN ACARICIDES FOR THE CONTROL OF MITES AT THE BASE OF PINEAPPLE LEAVES. (SP)**  
J Pardo S L Posada O  
*Agr Trop* 24(9):567-572  
Sep 1968 26 AG8  
Acaricides, Chemical control (insects), Mites, Pineapples.
- 1613-69**  
**CONTROL OF MITES IN TEA RESULTS IN INCREASED YIELDS.**  
G N Rao H Subramanian  
*Planters Chron* 63(21):412-413  
01 Nov 1968 22 P693  
Binapacryl, Chemical control (insects), Chlorobenzilate, Crop yields, Dicofof, Ethion, Insect pests, Mites, Tea.
- 1614-69**  
**THE IMPORTANCE OF PESTICIDES IN INDIAN FOOD PRODUCTION.**  
D B Reddy  
*Roy Soc Proc Ser B, Biol Sci* 167(1007):145-154 REF  
21 Feb 1967 501 L84B  
Chemical control (insects), Chemical control (weeds), Chlorinated hydrocarbons, Food industry, Herbicides, Insect vectors, Insecticides, Pesticides, Predaceous insects.
- 1615-69**  
**SCALE INSECTS, MEALY BUGS AND LAC INSECTS.**  
*Rubber Res Inst Malaya Plant Bull* 98:146-152  
Sep 1968 78.9 R825  
Biological control (insects), Coccoidea, Host relationships, Insect identification, Oil sprays, Plant injuries, Plant pest control.
- 1616-69**  
**THE IMPORTANCE OF PESTICIDES IN BRITISH FOOD PRODUCTION.**  
H Sanders  
*Roy Soc Proc Ser B, Biol Sci* 167(1007):141-144  
21 Feb 1967 501 L84B  
Agricultural economics, Farm management, Herbicides, Pesticides.
- 1617-69**  
**DOMESTIC QUARANTINE NOTICES. JAPANESE BEETLE. REGULATED AREAS.**  
D R Shepherd  
*Fed Regist* 33(252,PT 1):19939-19942  
28 Dec 1968 L1.451  
Agricultural regulation, Geography, Insect control, Insect pests, Plant quarantine, Popillia japonica.
- 1618-69**  
**DOMESTIC QUARANTINE NOTICES. EUROPEAN CHAFER. REGULATED AREAS.**  
D R Shepherd  
*Fed Regist* 34(20,PT 1):1435  
30 Jan 1969 L1.451  
Agricultural regulation, Amphimallon majalis, Geography, Insect control, Insect pests, Plant quarantine.
- 1619-69**  
**NATURAL ENEMIES OF FALL WEBWORM (HYPANTHRIA CUNEA DR.) IN NORTH AMERICA.**  
M D Tadic  
*Entomophaga* 8(4):245-252  
1963 421 EN835  
Beneficial insects, Biological control (insects), Hyphantria cunea, Natural control (insects), Spiders.
- 1620-69**  
**A STUDY OF OVIPOSITION SITE, MORTALITY AND MIGRATION IN THE FIRST (OVERWINTERING) GENERATION OF LYGOCORIS PABULINUS (FALLEN) (HETEROPTERA: MIRIDAE) ON BLACKCURRANT SHOOTS (1966-7).**  
J A Wightman  
*Entomologist (London)* 101(1267):269-275  
Dec 1968 421 EN8  
Currants, Host relationships, Insect migration, Miridae, Mortality, Oviposition.
- 1621-69**  
**THE SOYBEAN CYST NEMATODE THREAT.**  
S A Breth  
*Crops Soils* 21(1):7-14 MAP  
Oct 1968 6 W55  
Crop varieties, Heterodera glycines, Parasitism, Plant nematodes, Plant pest resistance, Plant protection, Seeds, Soils, Soybeans, Wind.
- 1622-69**  
**THE DETERMINATION OF THE NUMBER OF SUCCESSIVE GENERATIONS HETERODERA SCHACHTII DURING ONE VEGETATION PERIOD IN SLOVAKIA (CSSR). (GE)**  
J Curi I Zmoray  
*Helminthologia* 7(1/4):245-254  
1966 436.8 H36  
Climate, Ecology, Helminthology, Heterodera schachtii, Plant nematodes, Reproduction. English and Russian summaries.
- 1623-69**  
**DESICCATION SURVIVAL IN THE PLANT PARASITIC NEMATODES, HETERODERA ROSTOCHENSIS WOLLENWEBER AND DITYLENCHUS DIPSAKI (KUHN) FILIPJEV.**  
C Ellenby  
*Roy Soc Proc Ser B, Biol Sci* 169(1015):203-213 REF  
16 Jan 1968 501 L84B  
Ditylenchus dipsaci, Drying, Eggs, Heterodera, Larvae, Mortality, Plant nematodes.
- 1624-69**  
**AN ATTEMPT AT ANALYSING THE PROCESS OF PENETRATION BY SOIL NEMATODES INTO PLANTS.**  
H Sandner  
*Ekol Pol Ser A (SER A)15(28):5P*  
1967 512 W263  
Beans, Greenhouse culture, Nematodes, Penetration, Plant morphology, Plant physiology, Saprophagous insects, Soil analysis, Soil insects. Polish summary.
- 1625-69**  
**THREADWORMS AND THE PLANT PROTECTION. (POL)**  
H Sandner  
*Ochrona Roslin* 11(6):7-9  
1967 464.8 OC32  
Plant nematodes, Plant protection, Strongyloides.
- 1626-69**  
**DOMESTIC QUARANTINE NOTICES. SOYBEAN CYST NEMATODE. REGULATED AREAS.**  
D R Shepherd  
*Fed Regist* 34(6):305-313  
09 Jan 1969 L1.451  
Agricultural regulation, Geography, Heterodera glycines, Legislation, Plant nematodes, Plant quarantine, Soybeans.
- 1627-69**  
**ANALYSIS OF THE OCCURRENCE OF NEMATODES IN ALFALFA CROPS. III. SOME OBSERVATIONS ON AGE STRUCTURE.**  
L Wasilewska  
*Ekol Pol Ser A (SER A)15(18):8P*  
1967 512 W263  
Aging, Alfalfa, Animal ecology, Insect morphology, Larvae, Plant nematodes, Plant physiology, Soil analysis, Tables (data). Polish summary.
- 1628-69**  
**ANALYSIS OF THE OCCURRENCE OF NEMATODES IN ALFALFA CROPS. II. ABUNDANCE AND QUANTITATIVE RELATIONS BETWEEN SPECIES AND ECOLOGICAL GROUPS OF SPECIES.**  
L Wasilewska  
*Ekol Pol Ser A (SER A)15(15):25P REF*  
1967 512 W263  
Alfalfa, Animal ecology, Nematodes, Plant nematodes, Quantitative analysis, Rainfall, Soil analysis, Temperature. Polish summary.
- 1629-69**  
**ANALYSIS OF THE OCCURRENCE OF NEMATODES IN ALFALFA CROPS. I. SPECIES COMPOSITION OF NEMATODES IN TWO ALFALFA CROPS OF DIFFERENT AGE AND PENETRATION OF SPECIES FROM SOIL TO PLANTS.**  
L Wasilewska  
*Ekol Pol Ser A 15(2):31-74 REF*

## NEMATODES

## CROP PROTECTION

1630-69

1967 512 W263

Alfalfa, Crop varieties, Ecology, Nematodes, Quantitative analysis, Soil analysis, Tables (data), Polish summary

1630-69

SMALL DOSES OF D-D SOIL FUMIGANT TO CONTROL FREE-LIVING NEMATODES INJURIOUS TO SUGAR BEET.

A G Whitehead D J Lite

*Plant Pathol* 16(3):107-109

Sep 1967 464.8 P692

Barley, Chemical control (nematodes), Dichloropropane dichloropropene mixture, Dosage, Pesticide application, Plant injuries, Plant nematodes, Sandy soils, Soil fumigation, Sugar beets

## WEEDS

1631-69

BIOLOGICAL CONTROL FOR DWARF MISTLETOE.

*Can Dep Forest Forest Prod Res Br Res News* 11(5,SEP-OCT):10

1968 99.9 C1625F

Arceuthobium, Biological control (weeds), Colletotrichum gloeosporioides, Fungus diseases (plants), Parasitic plants, Pinus contorta latifolia, Septogloeum gillii, Wallrothiella arceuthobii.

1632-69

INFLUENCE OF CROP SEQUENCE, NITROGEN FERTILIZER AND HERBICIDES ON WEED SEED POPULATIONS IN SUGAR BEET FIELDS.

A D Dotzenko M Ozkan K R Storer

*Agron J* 61(1,JAN-FEB):34-37 REF

Feb 1969 4 AM34P

Crop rotation, Fertilizers, Herbicides, Nitrogen compounds, Seeds, Sugar beets, Weed control.

1633-69

INDICES OF WEED-CROP INTERFERENCE IN ZEA MAYS LINN.

O P Gupta M M Jain R M Singh

*Indian J Agron* 13(2):128-129

Jun 1968 22 IN235

Carbamates, Chemical control (weeds), Corn, Ethyl N,N-dipropylthiocarbamate, Herbicides, Linuron, Nitrogen, Plant ecology, Simazine, Weeds.

1634-69

THE CHEMICAL CONTROL OF SOME AQUATIC PLANTS.

R C Hiltibran

*Midwest Reg Turf Conf Proc 1968 MEETING*:36-41

04 Mar 1968 60.19 M58

Aquatic plants, Chemical control (weeds), Herbicides, Toxins. There is a list of herbicides for post emergence application.

1635-69

CONTROLLING WEEDS IN CARROTS.

V S Mani P N Arora K C Gautam

*Indian Hort* 12(2,JAN-MAR):12,35

1968 80 IN23

Carrots, Chemical control (weeds), Chloroxuron, Herbicides, Soil sanitation, Weed control.

1636-69

WHY IS THE NAVY CONCERNED WITH WEED CONTROL.

M T Palermo

*Pest Contr Oper News* 27(12):15,30

Dec 1967 SB951.A1P4

Herbicides, Insect breeding, Public health, Turf, Water, Weed control.

1637-69

CHEMICAL WEED CONTROL IN STRAWBERRY PLANTATIONS. (POL.)

H Pejka B Højden B Kostowska

*Ochrona Roslin* 11(4):19-21

1967 464.8 OC32

## BIBLIOGRAPHY

Chemical control (weeds), Herbicides, Plant protection, Plantations, Strawberries, Weeds.

1638-69

ECONOMIC ESTIMATION OF CHEMICAL WEED CONTROL OF SUGAR BEET. (POL.)

J Rola

*Ochrona Roslin* 11(4):3,5

1967 464.8 OC32

Agricultural economies, Chemical control (weeds), Plant protection, Sugar beets, Weed control.

1639-69

HERBICIDE RESEARCH AND FINESSE.

H Watkins

*Midwest Reg Turf Conf Proc 1968 MEETING*:35-36

04 Mar 1968 60.19 M58

Absorption, D, 2,4-, Herbicides, Humidity, Plant physiology, Plant regulators, Soil analysis, Temperature, Turf, Weed control.

## OTHER PESTS

1640-69

FURTHER OBSERVATIONS ON THE SUSCEPTIBILITY OF MAINCROP POTATO CULTIVARS TO SLUG DAMAGE.

A L Winfield L R Wardlaw B F Smith

*Plant Pathol* 16(3):136-138

Sep 1967 464.8 P692

Economic plants, Plant injuries, Plant pest resistance, Potatoes, Slugs.

## LIVESTOCK PROTECTION

1641-69

FOOD ADDITIVES PERMITTED IN THE FEED AND DRINKING WATER OF ANIMALS OR FOR THE TREATMENT OF FOOD-PRODUCING ANIMALS. FOOD ADDITIVES PERMITTED IN FOOD FOR HUMAN CONSUMPTION. DIETHYLSTILBESTROL.

J K Kirk

*Fed Regist* 34(5):252-253

L1.451

Diethylstilbestrol, Drugs, Feed, Food, Food additives, Humans, Legislation, Sheep, Water.

1642-69

INACTIVATION OF THE PHAGES OF STAPHYLOCOCCUS AUREUS BY HYDROXYLAMINE.

J Pillich Z Hradečna J Doskocil

*Int J Radiat Biol* 14(4):299-305 REF

29 Nov 1968 444.8 IN8

Bacteriophages, Culture media, Deoxyribonucleic acid, Hydroxylamine, Serological tests, Staphylococcus aureus. Germany and French summary.

1643-69

PARASITIC AND ECOLOGICAL STUDY OF THE SMALL MAMMALS (INSECTIVORES AND RODENTS) OF THE ALLONDON VALLEY (GENEVA). (FR.)

E Wahl

*Rev Suisse Zool* 74(1):129-188 MAP REF

May 1967 410 R324

Ecology, Insect taxonomy, Nematodes, Parasites, Rodents, Surveys, Zoogeography. English and German abstracts

## DISEASES

1644-69

VENTURIA PIRINA ADERH.; PEAR (PYRUS COMMUNIS). ED. 2.

*Commun Mycol Inst Distrib Maps Plant Dis* 367,

P MAP

08 Jan 1968 464.9 IM7

Pears, Plant geography, Venturia pirina. Distribution is worldwide

1645-69

A WARM HEMAGGLUTININ INDUCED IN CHICKENS BY INOCULATION WITH MYCOPLASMA GALLISEPTICUM.

H F Adler A J DaMissa

*Soe Exp Biol Med Proc* 130(2):480-483

Feb 1969 442.9 SO1

Chickens, Fluorescent antibody technic, Hemagglutination, Immunization, Mycoplasma gallisepticum.

1646-69

ANEMIA OF SUCKLING PIGS. (PE.)

R Alai

*Tehran Univ Vet Fac J* 24(2):116-123

Apr 1968 41.9 I23

Anemia, Baby pigs, Iron salts, Livestock diseases, Swine. French summary.

1647-69

ABORTION IN SHEEP ASSOCIATED WITH BRUCELLA ABORTUS INFECTION.

T N Allsup

*Vet Rec* 84(5):104-108 REF

01 Feb 1969 41.8 V641

Abortion, Brucella abortus, Brucellosis, Infectious diseases, Livestock diseases, Serological tests, Serum agglutination, Sheep.

1648-69

LIPIDS OF SALMONELLA TYPHIMURIUM AND ESCHERICHIA COLI: STRUCTURE AND METABOLISM.

G F Ames

*J Bacteriol* 95(3):833-843 REF

Mar 1968 448.3 J82

Biochemistry, Escherichia coli, Metabolism, Phospholipids, Salmonella typhimurium.

1649-69

EFFECT OF SUBLETHAL DDT ON THE LATERAL LINE OF BROOK TROUT, SALVELINUS FONTINALIS.

J M Anderson

*Can Fish Res Board J* 25(12):2677-2682

Dec 1968 442.9 C16J

DDT, Nervous system, Physiology, Temperature, Trout.

1650-69

STUDIES ON WILD RESERVOIRS AND VECTORS OF TRYPANOSOMA CRUZI. XXVII. NATURAL INFECTION OF BATS BY TRYPANOSOMA VESPERTILIONIS BATAGLIA, 1904. (POR.)

M P Barretto A F de Siqueira F Ferriolli Filho J

da R Carnevalheiro R D R Albuquerque Et Al

*Rev Brasil Biol* 28(2):147-155 REF

Jun 1968 442.8 R326

Animal vectors, Bats, Trypanosoma cruzi. English abstract

1651-69

EVIDENCE FOR THE POSSIBLE EXISTENCE OF TWO ENVELOPE ANTIGENIC DETERMINANTS AND CORRESPONDING CELL RECEPTORS FOR AVIAN TUMOR VIRUSES.

H Bauer T Graf

*Virology* 37(1):157-161 REF

Jan 1969 448.8 V81

Antigens, Birds, Cells, Neoplasms, Virology, Virus diseases (animals), Viruses.

1652-69

DISEASES TRANSMITTED BY RATS AND OTHER RODENTS.

R M Bentley L V Essayan

*Pest Contr Oper News* 27(12):21-23

Dec 1967 SB951.A1P4

Animal diseases, Animal vectors, Disease transmission, Human diseases, Rats, Rodents.

1653-69

CHAIN INITIATION IN A POLYCISTRONIC MESSAGE: SEQUENTIAL VERSUS SIMUL-



# **TANEOUS DEREPRESSION OF THE ENZYMES FOR HISTIDINE BIOSYNTHESIS IN *SALMONELLA TYPHIMURIUM*.**

M A Berberich J S Kovach R F Goldberger  
*Nat Acad Sci Proc* 57(6):1857-1864 REF  
 Jun 1967 500 N21P

Biosynthesis, Cytogenetics, Enzymes, Histidine, *Salmonella typhimurium*.

1654-69

# **FATTY LIVER AND KIDNEY DISEASE IN BROILER CHICKENS RECEIVING DIETS WITH VARYING CONTENTS OF PROTEIN.**

R Blair W Bolton R H Duff  
*Vet Rec* 84(2):41-43

11 Jan 1969 41.8 V641

Animal ecology, Animal genetics, Animal nutrition, Chickens, Deficiency diseases, Diet, Kidneys, Liver, Poultry diseases, Proteins, Statistical analysis.

1655-69

# **VARIABILITY IN *CANDIDA ALBICANS* (ROBIN) BERKHOUT. I. STUDIES ON MORPHOLOGY AND BIOCHEMICAL ACTIVITY.**

J Brown-Thomson

*Hereditas* 60(3):355-398 REF

18 Dec 1968 442.8 H42

Biochemistry, *Candida albicans*, Morphology, Taxonomy.

1656-69

# **USE OF AN ANTIGLOBULIN PLAQUE NEUTRALIZATION TEST AMONG GROUP A ARBOVIRUSES.**

A Brown V Elsner E Zebrovitz W P Allen

*Soc Exp Biol Med Proc* 130(3):718-722 REF

Mar 1969 442.9 S01

Antibodies, Arboviruses, Mice, Serological tests.

1657-69

# **REPORT OF FIVE YEARS OF EPIZOOTIOLOGY OF THE FOOT-AND-MOUTH DISEASE IN THE STATE OF SAO PAULO. (POR)**

M P DE Castro J R July P A DE Mello L P Netto A A Pinto

*Sao Paulo Inst Biol Arq* 34(3(JUL-SEP)):223-241 MAP REF

Sep 1967 442.9 SA6

Baby pigs, Cattle, Epizootic diseases, Foot-and-mouth disease, Goats, Zoogeography. English abstract

1658-69

# **CELL WALL COMPOSITION OF THE MYCELIAL AND BLASTOSPORE FORMS OF *CANDIDA ALBICANS*.**

F W Chattaway M R Holmes A J E Barlow

*J Gen Microbiol* 51(PT 3):367-376 REF

May 1968 448.3 J823

Biochemistry, *Candida albicans*, Cell wall, Chemical analysis, Chitin, Embryology, Fungus diseases (animals).

1659-69

# **SOME CRITERIA FOR THE FIELD DIAGNOSIS OF PORCINE TRANSMISSIBLE GASTROENTERITIS.**

R F Cross E H Bohl

*Amer Vet Med Ass J* 154(3):266-272 REF

01 Feb 1969 41.8 AM3

Biochemistry, Diagnosis, Epizootic diseases, Gastroenteritis, Swine.

1660-69

# **VARYING VIRULENCE IN RABBITS INFECTED WITH DIFFERENT FILAMENTOUS TYPES OF HISTOPLASMA CAPSULATUM.**

L S Daniels M D Berliner C C Campbell

*J Bacteriol* 96(5):1535-1539

Nov 1968 448.3 J82

Animal diseases, Bacteriology, Histoplasma capsulatum, Histoplasmosis, Rabbits, Virulence.

1661-69

# **REGULATION OF ALKALINE PHOSPHATASE PRODUCTION IN THE AUXOTROPHS OF *BACILLUS ANTHRACIS*.**

A Dobozsy I Marjar G Ivanovics

*Acta Microbiol* 15(3) 261-268 REF

16 Dec 1968 448.3 AC84

Alkaline phosphatase, *Bacillus anthracis*, Biochemistry, Protein synthesis.

1662-69

# **ISOLATION OF WESTERN EQUINE ENCEPHALOMYELITIS VIRUS FROM AN OPOSSUM.**

R W Emmons E H Lennette

*Science* 163(3870):945-946

28 Feb 1969 470 SC12

Arboviruses, *Culex tarsalis*, Epidemiology, Insect vectors, Livestock diseases, Opossums, Virus diseases (animals), Western equine encephalomyelitis virus.

1663-69

# **IN VIVO--PRODUCED ANTHRAX TOXIN.**

D C Fish R E Lincoln

*J Bacteriol* 95(3):919-924 REF

Mar 1968 448.3 J82

Antigens, *Bacillus anthracis*, Bacterial diseases (animals), Biochemistry, Serological tests, Synthesis, Toxins.

1664-69

# **PERSISTENT VIREMIA IN EIA INFECTED HORSES.**

J H Flynn G H Waddell V R Saurino

*Ela Acad Sci Quart* 30(4):301-315 REF

Dec 1967 500 F66

Antibodies, Antigens, Chemical control (animal diseases), Equine infectious anemia, Immune adherence, Parasites, Serological tests, Veterinary medicine, Viremia.

1665-69

# **RESPONSE AND SPECIFICITY OF ANTIBODIES FOR *CANDIDA ALBICANS*.**

Y Fukazawa T Shinoda T Tsuchiya

*J Bacteriol* 95(3):754-763 REF

Mar 1968 448.3 J82

Antibodies, *Candida albicans*, Fluorescent antibody technique, Immunodiagnosis, Rabbits, Serological tests.

1666-69

# **BABESIDAE (SPOROZOA; PIROPLASMIDA) INFECTIONS AND TICK INFESTATIONS OF CATTLE IN SOME PROVINCES OF THE BLACK SEA REGION OF TURKEY. (TU)**

K Goksu

*Ankara Univ Vet Fak Dergisi* 15(1):46-57 REF

1968 41.9 AN4D

Babesia, Cattle, Epizootic diseases, Insect vectors, Ixodidae, Livestock diseases, Serodiagnosis, Serological tests. English abstract

1667-69

# **A CONTRIBUTION TO THE SYSTEMATIC POSITION OF AEGYPTIANELLA PULLORUM CARPANO, 1928. (GE)**

R Gothe

*Z Parasitenk* 29(2):119-129 REF

1967 442.8 Z33F

Aegyptianella, Chickens, Cytology, Electron microscopy, Reproduction, Taxonomy. English abstract

1668-69

# **INVESTIGATIONS INTO THE DEVELOPMENT AND THE COURSE OF INFECTION OF AEGYPTIANELLA PULLORUM CARPANO, 1928, IN CHICKEN. (GE)**

R Gothe

*Z Parasitenk* 29(2):149-158 REF

1967 442.8 Z33F

Aegyptianella, *Argas persicus*, Blood parasites, Chickens, Insect biology, Insect vectors. English abstract

1669-69

# **PULMONARY ASPERGILLOSIS IN THE CALE.**

R M Griffin

*Vet Rec* 84(5):109-111

01 Feb 1969 41.8 V641

*Aspergillus fumigatus*, Autopsies, Calves, Infections diseases, Livestock diseases, Pulmonary aspergillosis.

1670-69

# **STUDIES ON THE CURATIVE EFFECT OF CASSIA TORA SEEDS AGAINST RINGWORM IN CATTLE.**

R K Gupta S C Saxena M C Goel V Mahadevan

*Indian J Vet Sci Anim Husb* 38(2):160-163

Jun 1968 41.8 IN22

Cassia tora, Cattle, Drug plants, Drug therapy, Ringworm.

1671-69

# **CONTRIBUTION TO THE KNOWLEDGE OF THE VIRUS OF THE AFRICAN HORSE PEST. II. COMMUNICATION. (GE)**

S Gurturk

*Ankara Univ Vet Fak Dergisi* 15(1):1-13 REF

1968 41.9 AN4D

African horse sickness virus, Immunization, Livestock diseases, Serological tests, Vaccines, Turkish abstract

1672-69

# **CORRELATION BETWEEN THE BACTERIOLOGICAL CHARACTERISTICS OF *SALMONELLA PULLORUM* AND *SALMONELLA GALLINARUM* AND THEIR RANGES OF SENSITIVITY TO BACTERIOPHAGES OBTAINED FROM OFF-SHOOTS OF THE SAME BATCH OF LYSOGENIC STOCK. (FR)**

R Hablas H Mometeau

*Acad Sci Compt Rend Ser D Sci Nat* 268(1, 1ST SEMESTER):213-216

06 Jan 1969 505 P21

Bacteriology, Bacteriophages, Biochemistry, *Salmonella gallinarum*, *Salmonella pullorum*.

1673-69

# **INTERFERENCE PHENOMENON IN THE CULTURE OF CHICK EMBRYO CELLS INFECTED WITH SCHMIDT-RUPPIN STRAIN OF ROUS SARCOMA VIRUS.**

K Hara

*Jap J Microbiol* 12(4):385-394

Dec 1968 448.8 J273

Chickens, Inhibitors, Interference phenomenon, Rous sarcoma virus, Tissue culture, Virus diseases (animals).

1674-69

# **SHEATH ROT IS ON THE INCREASE.**

R J R Hodge

*S Australia J Agr* 72(3):94-99

03 Oct 1968 23 S084

Disease control, Economics, Epidemiology, Hormones, Livestock diseases, Posthitis, Sheep, Surgical procedures, Testosterone, Therapeutics, Ulcers.

1675-69

# ***SALMONELLA TYPHIMURIUM* PROLINE MUTANTS.**

H Itikawa M Demercc

*J Bacteriol* 95(3):1189-1190

Mar 1968 448.3 J82

Biochemistry, Genetics, Mutations, Proline, *Salmonella typhimurium*.

1676-69

# **PHYCOMYCOSIS IN MULE. ENTOMOPHTHORA CORONATA ISOLATION. (POR)**

M J Johnston B Socrensen A M Saliba C da S

Lacaz J B Neto

*Sao Paulo Inst Biol Arq* 34(1(JAN-MAR)):51-58

Mar 1967 442.9 SA6

Diagnosis, Entomophthora coronata, Mules, Phycomycosis. English abstract

1677-69

1677-69

**STUDIES ON CYTOPATHOGENIC VIRUSES ISOLATED FROM CATS WITH RESPIRATORY INFECTIONS. I.**

M Kamizono S Konish M Ogata S Kobori

*Jap J Vet Sci* 30(4):197-206

Aug 1968 41.8 J27

Cats, Inclusion bodies, Kidneys, Respiratory diseases, Serological tests, Virus diseases (animals). Japanese summary

1678-69

**STUDIES ON BACTERIOPHAGE AND METABOLIC IDENTIFICATION OF BRUCELLA STRAINS. (PE)**

M Keyhani

*Tehran Univ Vet Fac J* 24(2):76-84

Apr 1968 41.9 T23

Bacteriophages, Brucella abortus, Brucella melitensis, Culture media, Livestock diseases, Metabolism. English summary.

1679-69

**FOOD ADDITIVES PERMITTED IN THE FEED AND DRINKING WATER OF ANIMALS OR FOR THE TREATMENT OF FOOD-PRODUCING ANIMALS. FOOD ADDITIVES PERMITTED IN FOOD FOR HUMAN CONSUMPTION. OLEANDOMYCIN.**

J K Kirk

*Fed Regist* 33(251):19801-19802

27 Dec 1968 41.451

Antibiotics, Bacterial diseases (animals), Drug therapy, Food, Food additives, Humans, Oleandomycin, Pesticide residues, Swine, Veterinary medicine.

1680-69

**AN EPIZOOTIOLOGICAL STUDY OF THE DEVELOPMENT OF CATTLE BRUCELLOSIS IN CZECHOSLOVAKIA--DETECTION. (CZ)**

V Kouba

*Czech Min Zemed Lex Hospod Ustav Vedeckotech Inform Vet Med* 13(8-9):447-455 REF

Sep 1968 41.9 C333

Brucellosis, Cattle, Diagnosis, Epizootic diseases, Serological tests, Surveys. English, Russian, and German abstracts.

1681-69

**CRONARTIUM COMANDRAE PK.; HARD PINES (PINUS SPP.) AND COMANDRA SPP. ED. I.**

R G Krebill

*Commun Mycol Inst Distrib Maps Plant Dis* 444,

2P, MAP, REF

08 Jan 1968 464.9 IM7

Comandra, Cronartium comandrae, Pinus, Plant geography.

1682-69

**EXPERIMENTAL SALMONELLOSIS. X. CELLULAR IMMUNITY AND ITS ANTIBODY IN MOUSE MONONUCLEAR PHAGOCYTES.**

S Kurashige N Osawa M Kawakami S Mitsuhashi

*J Bacteriol* 94(4):902-906 REF

Oct 1967 448.3 J82

Antibodies, Centrifugation, Hemagglutination, Immunity, Mice, Salmonellosis, Vaccines.

1683-69

**THE DISTRIBUTION OF THE Q FEVER AGENT IN DAIRY CATTLE.**

D R Lingard

*Can J Public Health* 59(11):453-456 REF

Nov 1968 449.8 P964

Chicks, Dairy cattle, Epidemiology, Livestock diseases, Public health, Q fever, Rickettsial diseases, Symptomatology.

1684-69

**COPPER SULPHATE AND ANTIBIOTICS AS FEED ADDITIVES FOR EARLY WEANED PIGS.**

R M Livingstone D M S Livingstone

*J Agr Sci London & 71(PT 3):419-424*

Dec 1968 10 J822

Animal husbandry, Antibiotics, Baby pigs, Citric acid, Copper sulfate, Feed additives, Formosulfathiazole, Tylosin, Zinc bacitracin.

1685-69

**RESISTANCE OF BETA-HAEMOLYTICAL COLIBACTERIA, ISOLATED FROM ENTEROTOXAEMIC PIGLETS, TO ANTIBIOTICS AND CHEMOTHERAPEUTICS. (GE)**

C Madrov

*Monatsh Vet* 23(13):502-504 REF

01 Jul 1968 41.8 M742

Antibiotics, Baby pigs, Drug-fast microorganisms, Enterotoxemia, Escherichia coli, Livestock diseases. English and Russian summaries.

1686-69

**CLASSIFICATION OF STRAINS OF PASTEURELLA MULTOCIDA ISOLATED FROM POULTRY. (CZ)**

Z Malik

*Czech Min Zemed Lex Hospod Ustav Vedeckotech Inform Vet Med* 13(8-9):481-487 REF

Sep 1968 41.9 C333

Hemagglutination, Pasteurella multocida, Poultry, Serological tests. English, German, and Russian abstracts.

1687-69

**ISOLATION, IMMUNODIFFUSION, IMMUNOFLOURESCENCE, AND ELECTRON MICROSCOPY OF A SYNCYTIAL VIRUS OF LYMPHOSARCOMATOUS AND APPARENTLY NORMAL CATTLE.**

W A Malmquist M J Van Der Maaten A D

Boothe

*Cancer Res* 29(1):188-200 REF

Jan 1969 448.8 C16

Cattle, Electron microscopy, Immunofluorescence, Lymphosarcoma, Virus diseases (animals).

1688-69

**EXPERIMENTAL PLANTINGS OF BROOK TROUT (SALVELINUS FONTINALIS) FROM FURUNCULOSIS-INFECTED STOCK.**

L A McDermott A H Berst

*Can Fish Res Board J* 25(12):2643-2649 REF

Dec 1968 442.9 C16J

Aeromonas salmonicida, Furunculosis, Trout, Wildlife diseases.

1689-69

**COW DISEASES AND TYPE OF HOUSING.**

A M Meek

*Dairymens League News* 52(19):6

02 Oct 1968 44.8 D1432

Accidents, Animal abnormalities, Farm buildings, Ketosis, Livestock diseases, Mastitis, Milk fever.

1690-69

**LEPTOSPIROSIS IN PIGS: EPIDEMIOLOGY, MICROBIOLOGY AND PATHOLOGY.**

S W Michna R S F Campbell M C Path

*Vet Rec* 84(6):135-138 REF

08 Feb 1969 41.8 V641

Epidemiology, Leptospira canicola, Leptospira icterohaemorrhagiae, Leptospirosis, Livestock diseases, Microbiology, Microscopy, Pathology, Serological tests, Swine, Virus diseases (animals), Zoonoses.

1691-69

**EXPERIMENTAL SALMONELLOSIS. XI. INDUCTION OF CELLULAR IMMUNITY AND FORMATION OF ANTIBODY BY TRANSFER AGENT OF MOUSE MONONUCLEAR PHAGOCYTES.**

S Mitsuhashi K Saito N Osawa S Kurashige

*J Bacteriol* 94(4):907-913 REF

Oct 1967 448.3 J82

Antibodies, Immunity, Mice, Ribonucleic acid, Salmonellosis.

1692-69

**THE INCUBATION PERIOD OF RABIES VIRUS INOCULATED INTO GUINEA-PIGS INTRAMUSCULARLY. (POR)**

M R Nilsson W Sugay O L Pasqualin S B K

Mueller

*Sao Paulo Inst Biol Arq* 35(1 JAN-MAR):17-21

Mar 1968 442.9 SA6

Cattle, Diagnosis, Guinea pigs, Immunization, Rabies, Virus diseases (animals). English abstract

1693-69

**RABIES DIAGNOSIS. STUDIES ON THE INCUBATION PERIOD AND COURSE OF THE DISEASE IN THE MOUSE TEST FROM 1960 TO 1966. (POR)**

M R Nilsson W Sugay O L Pasqualin

*Sao Paulo Inst Biol Arq* 35(1 JAN-MAR):1-7 REF

Mar 1968 442.9 SA6

Diagnosis, Mice, Rabies. English abstract

1694-69

**EFFECTS OF CORTISONE ACETATE ON MAMMARY DEVELOPMENT OF RABBITS UNDER VARIOUS ENDOCRINE CONDITIONS.**

A Norgren

*Lund Univ Acta Univ Lundensis Sect 11 Med**Math Sci Ker Nat (SER 2)(32):24P REF*

1967 502 L97A

Animal morphology, Animal physiology, Castration, Cortisone acetate, Dosage, Drug therapy, Endocrine glands, Hormones, Mammary glands, Rabbits.

1695-69

**ON THE TYPE SPECIFICITIES OF RABBIT ANTI-S. TYPHI ANTIBODIES. (FR)**

J Oudin M Michel

*Acad Sci Compt Rend Ser D Sci Nat* 268(1, 1ST

SEMESTER):230-233

06 Jan 1969 505 P21

Antibodies, Rabbits, Salmonella typhimurium, Serological tests.

1696-69

**BOVINE VIBRIOSIS IN THE STATE OF SAO PAULO (BRAZIL). ISOLATION OF VIBRIO FETUS AND RESEARCH OF AGGLUTININS ANTI-VIBRIO FETUS IN THE VAGINAL MUCUS. (POR)**

A F Pestana De Castro W Giorgi C A S Rosa W

B Riheiro

*Sao Paulo Inst Biol Arq* 34(1 JAN-MAR):29-43

REF

Mar 1967 442.9 SA6

Antibodies, Cattle, Mucus, Serological tests, Vagina, Vibrio fetus, Vibriosis. English abstract

1697-69

**THE DIFFERENTIATION OF DIFFERENT STRAINS OF THE VIRUS OF CANINE INFECTIOUS HEPATITIS. (CZ)**

G Petr E Jiran

*Czech Min Zemed Lex Hospod Ustav Vedeckotech Inform Vet Med* 13(8-9):501-510 REF

Sep 1968 41.9 C333

Chromatography, Complement fixation, Hemagglutination-inhibition test, Infectious canine hepatitis, Serological tests. English, German, and Russian abstracts

1698-69

**VIRUS ABORTION IN MARES AND ITS CAUSE IN GERMANY. (GE)**

K Petzoldt K Wagener

*Blauen H Tierarzt* (38):7-13 REF

Oct 1968 41.9 B61

Abortion, Diagnosis, Epidemiology, Equine herpesviruses, Equine rhinopneumonitis, Horses, Immunization.

1699-69

**SIGNIFICANCE OF ALLERGIC TESTS FOR DIAGNOSIS OF JOHNE'S DISEASE IN SHEEP AND GOATS.**

A K Prasad R R Shukla

*Indian J Vet Sci Anim Husband* 38(2):188-196

Jun 1968 41.8 IN22

Goats, Immunodiagnosis, Johne's disease, Mycobacterium paratuberculosis, Sheep.



- 1700-69**  
**FATTY ACIDS OF LISTERIA MONOCYTOGENES.**  
 L J Raines C W Moss D Farshtchi B Pittman  
*J Bacteriol* 96(6):2175-2177  
 Dec 1968 448.3 J82  
 Bacterial diseases (animals), Biochemistry, Fatty acids, Listeria monocytogenes, Physiology.
- 1701-69**  
**COMPARATIVE STUDY OF THE MULTIPLICATION OF NEWCASTLE DISEASE VIRUS (NDV) ON HELA, KB AND HUMAN AMNION CELLS. (SP)**  
 E Ronda  
*Rev Latinoamer Microbiol Parasitol* 11(1(JAN-MAR)):1-4  
 1969 448.8 R32  
 Chick embryos, Culture media, Newcastle disease virus, Tissue culture. English abstract
- 1702-69**  
**HYGIENE AND PRACTICAL MEDICINE OF THE CAT. (FR)**  
 P Rousselet  
 71P PARIS, FRANCE LA MAISON RUSTIQUE  
 1967 SF985 R6  
 Animal diseases, Animal nutrition, Cats, Hygiene, Pets, Surgery, Veterinary medicine.
- 1703-69**  
**IMMUNO-BIOLOGICAL PROPERTIES OF LIPO-POLY-SACCHARIDES ISOLATED FROM LISTERIA MONOCYTOGENES.**  
 G P Sen M R Dhanda  
*Indian J Vet Sci Anim Husb* 38(2):179-187 REF  
 Jun 1968 41.8 IN22  
 Immunology, Lipopolysaccharides, Listeria monocytogenes, Serological tests.
- 1704-69**  
**INHIBITORY EFFECT OF NEUTRAL RED ON BOVINE VIRUS DIARRHEAMUCOSAL DISEASE PLAQUE FORMATION.**  
 K V Singh  
*Appl Microbiol* 17(2):323-324  
 Feb 1969 448.3 AP5  
 Bovine virus diarrhea virus, Inhibitors, Microbiology, Mucosal disease, Neutral red, Plaque, Virus diseases (animals).
- 1705-69**  
**A NOTE ON THE DISTRIBUTION OF VARIOUS TYPES OF FOOT-AND-MOUTH DISEASE VIRUS IN UTTAR PRADESH.**  
 P P Singh M P Bansal B S Malik  
*Curr Sci* 37(21):616  
 05 Nov 1968 475 SC123  
 Baby pigs, Cattle, Epizootic diseases, Foot-and-mouth disease, Zoogeography.
- 1706-69**  
**ISOLATION AND MAPPING OF SALMONELLA TYPHIMURIUM MUTANTS DEFECTIVE IN THE UTILIZATION OF TREHALOSE.**  
 M L St Pierre  
*J Bacteriol* 95(3):1185-1186  
 Mar 1968 448.3 J82  
 Biochemistry, Genetics, Mutations, Salmonella typhimurium, Trehalose.
- 1707-69**  
**STUDIES ON THE ANTIGENIC ACTIVITIES OF YEASTS. II. ISOLATION AND INHIBITION ASSAY OF OLIGOSACCHARIDES FROM ACETOLYSATE OF MANNAN OF CANDIDA ALBICANS.**  
 S Suzuki H Sunayama  
*Jap J Microbiol* 12(4):413-422 REF  
 Dec 1968 448.8 J273  
 Antigens, Candida albicans, Mannans, Oligosaccharides, Serological tests.
- 1708-69**  
**MODIFICATION OF SELECTED HOST-REACTIVE PROPERTIES OF ENDOTOXIN BY TREATMENT WITH SODIUM DEOXYCHOLATE.**  
 D F Tarmina K C Milner E Ribi J A Rudbach  
*J Bacteriol* 96(5):1611-1616 REF  
 Nov 1968 448.3 J82  
 Animal diseases, Bacterial diseases (animals), Chick embryos, Endotoxins, Mice, Necrosis, Properties, Sodium deoxycholate.
- 1709-69**  
**RESPIRATORY COMPONENTS OF ASPERGILLUS NIGER MITOCHONDRIA.**  
 K Watson J E Smith  
*J Bacteriol* 96(5):1546-1550 REF  
 Nov 1968 448.3 J82  
 Aspergillus niger, Cattle, Fungus diseases (animals), Heart, Liver, Mitochondria, Rats, Respiration.
- 1710-69**  
**PHOSPHOLIPID METABOLISM DURING CHANGES IN THE PROPORTIONS OF MEMBRANE-BOUND RESPIRATORY PIGMENTS IN HAEMOPHILUS PARAINFLUENZAE.**  
 D C White A N Tucker  
*J Bacteriol* 97(1):199-209 REF  
 Jan 1969 448.3 J82  
 Haemophilus, Metabolism, Phospholipids, Pigments, Radioactive tracers.
- 1711-69**  
**CONTRIBUTION TO THE OCCURRENCE OF AUJESZKY'S VIRUS IN CLINICALLY HEALTHY PORKERS FROM CHRONICALLY INFESTED PIG FATTENING CENTRES. (GE)**  
 I Wilke H D Dannenberg  
*Monatsh Vet* 23(13):494-498 REF  
 01 Jul 1968 41.8 M742  
 Antibodies, Epidemiology, Livestock diseases, Meat, Pseudorabies, Swine, Virus diseases (animals). English and Russian summaries.
- 1712-69**  
**ENDODYOGENY OF TOXOPLASMA GONDII. A MORPHOLOGIC ANALYSIS. (GE)**  
 E van der Zypen G Pickarski  
*Z Parasitenk* 29(1):15-35 REF  
 1967 442.8 Z33F  
 Electron microscopy, Histochemistry, Reproduction, Toxoplasma. English abstract

## ARTHROPODS

- 1713-69**  
**TICKS OF DOMESTIC ANIMALS IN TESSIN. (FR)**  
 A Aeschlimann P A Diehl G Eichenberger R Immler N Weiss  
*Rev Suisse Zool* 75(4):1039-1050 MAP  
 Dec 1968 410 R324  
 Insect ecology, Insect geography, Ixodides, Livestock. English abstract
- 1714-69**  
**THE TITMOUSE, PARUS MAJOR, AS HOST OF THREE SPECIES OF THE GENUS ORNITHOMYIA (DIPTERA: HIPPOBOSCIDAE). (DU)**  
 E van den Broek  
*Entomol Ber* 28(6):101-103  
 01 Jun 1968 420 N38B  
 Birds, Ecology, Hippoboscidae, Host relationships, Insect ecology. English abstract
- 1715-69**  
**ON THE ROLE OF HOG LOUSE HAEMATOPINUS SUIS (L.) IN THE TRANSMISSION OF SWINE FEVER.**  
 R P Chaudhuri M H Khan G A Shivanani  
*Indian J Vet Sci Anim Husb* 38(2):197-202  
 Jun 1968 41.8 IN22  
 Epizootic diseases, Haematopinus suis, Hog cholera, Insect vectors, Swine.
- 1716-69**  
**THE MOSQUITOES ATTRACTED TO TURTLES.**  
 W J Crans E G Rockel  
*Mosquito News* 28(3):332-337  
 Sep 1968 421 M85  
 Aedes, Culex, Host relationships, Predaceous insects, Surveys, Turtles.
- 1717-69**  
**DEVELOPMENT OF AEGYPTIANELLA PUL-LORUM CARPANO, 1928, IN THE SOFT TICK ARGAS (PERSICARGAS) PERSICUS (OKEN, 1818) AND TRANSMISSION. (GE)**  
 R Gothe  
*Z Parasitenk* 29(2):103-118 REF  
 1967 442.8 Z33F  
 Aegyptianella, Argas persicus, Chickens, Epizootic diseases, Insect vectors, Life cycle, Piroplasmosis. English abstract
- 1718-69**  
**STUDIES ON THE CURATIVE EFFECT OF CEDRUS DEODARA OIL AGAINST SARCOPTIC MANGE IN BUFFALO-CALVES.**  
 R K Gupta S K Saksena B Dutt V Mahadevan  
*Indian J Vet Sci Anim Husb* 38(2):203-209  
 Jun 1968 41.8 IN22  
 Buffaloes, Cedrus deodara, Chemical control (insects), Drug plants, Mange, Sarcoptes scabiei.
- 1719-69**  
**OCCURRENCE OF NYMPHS OF THE FAMILY LINGUATULIDAE (PENTASTOMIDA) IN AFRICAN HOOFED ANIMALS AND THEIR PARASITISM. (GE)**  
 K von Haffner R Sachs G Rack  
*Z Parasitenk* 29(4):329-355 REF  
 1967 442.8 Z33F  
 Histology, Larvae, Livestock diseases, Pentastomida.
- 1720-69**  
**CONTRIBUTION TO THE CONTROL OF SWINE MANGE. (GE)**  
 E Kutzer  
*Monatsh Vet* 23(13):506-510 REF  
 01 Jul 1968 41.8 M742  
 Mange, Sarcoptes suis, Swine. English and Russian summaries.
- 1721-69**  
**A POSSIBLE CASE OF HOST REVERSAL ENCOUNTERED IN A SINGLE GENERATION OF A LABORATORY COLONY OF HYALOMMA MARGINATUM ISAACI.**  
 U Rau  
*Acarologia* 10(4):609-613 REF  
 Dec 1968 434.8 AC1  
 Birds, Guinea pigs, Hyalomma marginatum, Immunity, Rabbits.
- 1722-69**  
**FUMIGATION FOR LICE CONTROL IN PIG BREEDING STOCK. (GE)**  
 R Ribbeck B Ziegler T Hepe  
*Monatsh Vet* 23(13):505-506  
 01 Jul 1968 41.8 M742  
 Chlorinated hydrocarbons, Fumigation, Haematopinus suis, Insecticides, Lindane, Swine, Swine houses. English and Russian summaries.
- 1723-69**  
**THE EFFECT OF HOE-2910 ON EC-TOPARASITES OF ANIMALS. (TU)**  
 F Sayin  
*Ankara Univ Vet Fak Dergisi* 15(1):114-124  
 1968 41.9 AN4D  
 Acarina, Anoplura, Chemical control (insects), Ectoparasites, Insecticides, Livestock, Parasitic insects. English abstract
- 1724-69**  
**GASTROPHILUS SPECIES RECORDED IN EQUINE (HORSES, DONKEYS, AND MULES) FROM TURKEY. (TU)**  
 F Sayin M Mimioglu  
*Ankara Univ Vet Fak Dergisi* 15(1):75-91 MAP  
 REF  
 1968 41.9 AN4D  
 Asses, Horses, Insect morphology, Mules, Zoogeography. English abstract

1725-69

# 1725-69 PASTURE MOSQUITO RESISTANCE IN CALIFORNIA.

C H Schaefer  
*Pest Contr* 37(1):16-37  
Jan 1969 449 8 F X8

*Aedes nigromaculis*, Biological control (insects), Chemical control (insects), Insecticide resistant insects

The resistance of mosquitoes to insecticides, especially organophosphorus compounds, in California is analyzed.

1726-69

# LETHAL EFFECTS OF SYNTHETIC JUVENILE HORMONE ON THE HUMAN BODY LOUSE.

J W Vinson C M Williams  
*Nat Acad Sci Proc* 58(1):294-297  
Jul 1967 500 N21P

Analogues, Chemical control (insects), Insect mortality, Juvenile hormone, Ovicides, *Pediculus humanus*.

## PARASITES

1727-69

# ENZYME HISTOCHEMISTRY OF THE ADULT LIVER FLUKE, FASCIOLA HEPATICA.

D H Barry I E Mawdesley-Thomas J C Malone  
*Exp Parasitol* 23(3):355-360 REF  
Dec 1968 436.8 F X7  
Biochemistry, Enzymes, *Fasciola hepatica*, Histochemistry.

1728-69

# SEASONAL DYNAMICS OF THE INVASION EXTENSIVITY OF THE NEMATODE SYNGAMUS TRACHEA (MONTAGU, 1811) IN BREEDING TURKEYS (MELEAGRIS GALLOPAVO F. DOMESTICA).

V Barus  
*Helminthologia* 7(1/4):29-37 REF  
1966 436.8 H36

Breeding, Epidemiology, Meteorology, Nematodes, Research, *Syngamus trachea*, Turkeys, Weather. Russian and German summaries.

1729-69

# EQUINE PROTOZOAN DIARRHEA (EQUINE INTESTINAL TRICHOMONIASIS) AT TRINIDAD RACETRACKS.

S P Bennett D A Franco  
*Amer Vet Med Ass J* 154(1):58-60  
01 Jan 1969 41.8 AM3

Diarrhea, Epizootic diseases, Horses, Symptomatology, Trichomoniasis.

1730-69

# ACTIVITY OF DIETHYLENEDIAMINE KAINATE AGAINST PARASITIC INTESTINAL HELMINTHS OF HENS. (SP)

J G Berenguer J M S Vallespinosa  
*Rev Iberica Parasitol* 27(1-2 JAN-JUN):25-37  
Jun 1967 436.8 R32

Anthelmintics, *Ascaridia galli*, Chickens, *Heterakis gallinae*, English abstract

1731-69

# ON THE SEASONAL DYNAMICS OF THE INFESTATION CYCLE OF HETERAKIS GALLINARUM IN THE HEN GALLUS DOMESTICUS. (GE)

V Birova  
*Helminthologia* 7(1/4):221-234 REF  
1966 436.8 H36

Climate, Epidemiology, *Gallus domesticus*, Helminthiasis, *Heterakis gallinarum*, Russian and English summary.

1732-69

# AEROBIC AND ANAEROBIC METABOLISM OF LARVAL AND ADULT TAENIA TAENIAEFORMIS: V. GLYCOGEN SYNTHESIS, METABOLIC ENDPRODUCTS, AND CAR-

# BON BALANCES OF GLUCOSE AND GLYCEROL UTILIZATION.

I VON Brand I Churchwell J Eckert  
*Exp Parasitol* 23(3):309-318 REF  
Dec 1968 436.8 F X7

Acids, Carbohydrates, Glycerol, Metabolism, Organic compounds, Oxygen, *Taenia taeniaeformis*.

1733-69

# INTERNAL PARASITISM OF DAIRY CATTLE.

W H Daniels  
*Dairymens League News* 52(19):12,22  
02 Oct 1968 44.8 D1432

Drug therapy, Drugs, Larvae, Lesions, Livestock diseases, Parasitism, Pest control, Symptomatology.

1734-69

# EXPERIMENTAL FASCIOLIASIS: SOME EFFECTS ON FASCIOLA HEPATICA OF TREATMENT OF RAT HOSTS WITH BITHIONOL (ACTAMER).

B Dawes  
*Helminthologia* 7(1/4):297-307 REF  
1966 436.8 H36

Bithionol, Chemical control (nematodes), Drug therapy, *Fasciola hepatica*, Fascioliasis, Histology, Laboratory animals, Rats. Russian and German summaries.

1735-69

# TREATMENT OF MICROSPORUM CANIS RINGWORM IN A CAT COLONY.

C O Dawson B M Noddle  
*J Small Anim Pract* 9(12):613-620 REF  
Dec 1968 41.8 J8292

Animal diseases, Cats, Dermatophytosis, Dosage, Drug therapy, Epidemiology, Fluorescence, Griseofulvin, *Microsporum canis*, Ringworm. German and French summary.

1736-69

# TETRAMISOLE TREATMENT FOR LUNGWORM INFECTION IN PIGS.

J B Dixon  
*Vet Rec* 84(2):44-46 REF  
11 Jan 1969 41.8 V641

Anthelmintics, Autopsies, Chemical control (animal diseases), Drug therapy, Larvae, Livestock diseases, *Metastrongylus apri*, Swine, Tetramisole.

1737-69

# STUDIES ON SCHISTOSOMA NASALE RAO, 1933. II. MOLLUSCAN AND MAMMALIAN HOSTS OF THE BLOOD-FLUKE.

S C Dutt H D Srivastava  
*Indian J Vet Sci Anim Husb* 38(2):210-216  
Jun 1968 41.8 IN22

Animal disease transmission, Animal vectors, Livestock diseases, Mollusks, *Schistosoma*.

1738-69

# IN VITRO DEVELOPMENT OF INVASIVE NEMATODE-LARVAE TO PARASITIC STAGES. (GE)

J Eckert  
*Z Parasitenk* 29(3):242-274  
1967 442.8 Z33F

Biochemistry, Culture media, Larvae, Metabolism, Rearing, Trichostrongylidae. English abstract

1739-69

# ON THE PHYSIOLOGY OF INVASIVE LARVAE OF TRICHOSTONGYLIDAE. (GE)

J Eckert  
*Z Parasitenk* 29(3):209-241 REF  
1967 442.8 Z33F

Biochemistry, Larvae, Oxygen, Physiology, Trichostrongylidae. English abstract

1740-69

# EIMERIA STIEDAE: CYTOCHEMICAL IDENTIFICATION OF ACID AND ALKALINE PHOSPHATASES, CARBOXYLIC ESTER HYDROLASES, AND SUCCINATE, LACTATE, AND GLUCOSE-6-PHOSPHATE DEHYDROGENASES IN ENDOGENOUS STAGES FROM RABBIT TISSUES.

J C Iranden

*Exp Parasitol* 23(3):398-411 REF  
Dec 1968 436.8 F X7

Biochemistry, Chemical analysis, *Eimeria stiedae*, Enzymes, Rabbits

1741-69

# SETARIOSIS IN TURKEY. (TU)

S Giralp C Dogru  
*Ankara Univ Vet Fak Dergisi* 15(1):29-40 MAP  
REF  
1968 41.9 AN4D

Filariasis, Livestock diseases. English and German abstracts

1742-69

# THE ROUTINE DIFFERENTIATION OF THE OVA AND LARVAE OF TWO PARASITES OF SWINE, HYOSTRONGYLUS RUBIDUS (HASSALL ET STILES, 1892) AND OESOPHAGOSTOMUM DENTATUM (RUD., 1803).

M R Honer  
*Z Parasitenk* 29(1):40-45  
1967 442.8 Z33F

*Hyoststrongylus rubidus*, Larvae, Nematode morphology, *Oesophagostomum dentatum*, Swine.

1743-69

# ON THE NATURAL FOCUS-PROBLEM OF TRICHINELLOSIS IN SWITZERLAND. (GE)

B Horning  
*Rev Suisse Zool* 75(4):1063-1066  
Dec 1968 410 R324

Animal diseases, Nematode infestation, Reviews, Trichinosis.

1744-69

# THIACTARSAMIDE FOR PREVENTIVE TREATMENT OF DIROFILARIA IMMITIS.

R F Jackson  
*Amer Vet Med Ass J* 154(4):395-396  
15 Feb 1969 41.8 AM3

*Dirofilaria immitis*, Dogs, Dosage, Drug therapy, Preventive medicine, Thiactarsamide.

1745-69

# COMPLICATIONS DURING AND FOLLOWING CHEMOTHERAPY OF HEARTWORM DISEASE.

R F Jackson  
*Amer Vet Med Ass J* 154(4):393-395  
15 Feb 1969 41.8 AM3

Bilirubin, *Dirofilaria immitis*, Drug therapy, Liver, Lungs.

1746-69

# TREATMENT OF HEARTWORM-INFECTED DOGS WITH CHEMICAL AGENTS.

R F Jackson  
*Amer Vet Med Ass J* 154(4):390-393  
15 Feb 1969 41.8 AM3

Chemical control (nematodes), *Dirofilaria immitis*, Dithiazanine iodide, Dosage, Drug therapy, Thiactarsamide.

1747-69

# DIAGNOSIS OF HEARTWORM DISEASE BY EXAMINATION OF THE BLOOD.

R F Jackson  
*Amer Vet Med Ass J* 154(4):374-376 REF  
15 Feb 1969 41.8 AM3

Blood analysis, *Dirofilaria immitis*, Dogs, Parasitic nematodes, Serological tests.

1748-69

# THE VENAE CAVAE OR LIVER FAILURE SYNDROME OF HEARTWORM DISEASE.

R F Jackson  
*Amer Vet Med Ass J* 154(4):384-385  
15 Feb 1969 41.8 AM3

Diagnosis, *Dirofilaria immitis*, Dogs, Liver function tests, Lungs, Veins.

1749-69

# SURGICAL TREATMENT OF HEARTWORM DISEASE.

W F Jackson



- Amer Vet Med Ass J* 154(4):383-384 REF  
15 Feb 1969 41.8 AM3  
*Dirofilaria immitis*, Dogs, Heart, Methodology, Surgery.
- 1750-69**  
**PHYSICAL EXAMINATION OF THE HEART-WORM-INFECTED PATIENT.**  
W F Jackson  
*Amer Vet Med Ass J* 154(4):377-378  
15 Feb 1969 41.8 AM3  
Animal morphology, Animal physiology, Diagnosis, *Dirofilaria immitis*, Dogs, Heart, Lungs.
- 1751-69**  
**RADIOGRAPHIC EXAMINATION OF THE HEARTWORM-INFECTED PATIENT.**  
W F Jackson  
*Amer Vet Med Ass J* 154(4):380-382  
15 Feb 1969 41.8 AM3  
Abdomen, Diagnosis, *Dirofilaria immitis*, Dogs, Parasitic nematodes, Radiography, Thorax.
- 1752-69**  
**PREVENTATIVE THERAPY WITH DIETHYL-CARBAMAZINE.**  
W F Jackson  
*Amer Vet Med Ass J* 154(4):396  
15 Feb 1969 41.8 AM3  
Diethylcarbamazine, *Dirofilaria immitis*, Dogs, Dosage, Drug therapy, Preventive medicine.
- 1753-69**  
**STUDIES ON DOG HEARTWORM IN SOUTH TEXAS.**  
H L Keegan C M Fitzgerald T L Mcrary M D Doyle  
*Tex Rep Biol Med* 26(3,FALL):321-330  
1968 448.8 T31  
Chemical control (insects), Chemical control (nematodes), Culicidae, *Dirofilaria immitis*, Dogs, Insect vectors.
- 1754-69**  
**LOCALIZATION OF CYSTICERCUS BOVIS IN THE ORGANS OF SLIGHTLY INFESTED CATTLE. (GE )**  
K Koudela  
*Helminthologia* 7(1/4):235-243  
1966 436.8 H36  
Cattle, Cestoda, *Cysticercus bovis*, Epidemiology, Heart, Livestock diseases, Muscles, Viscera. English and Russian summaries.
- 1755-69**  
**THE AGE DYNAMICS OF THE INFESTATION OF CATTLE BY CYSTICERCUS BOVIS. (GE )**  
K Koudela  
*Helminthologia* 7(1/4):337-342  
1966 436.8 H36  
Aging, Animal physiology, Cattle, Cestoda, *Cysticercus bovis*, Epidemiology. Russian and English summaries.
- 1756-69**  
**ON STUDY OF FEEDING PECULIARITIES OF THE HELMINTH ASCARIDIA GALI.I.**  
B E Kurashvili N Akhohadze  
*Zool Anz* 179(5-6,NOV-DEC):457-463  
Dec 1967 410 Z7  
*Ascaridia galli*, Food habits, Host relationships, Poultry.
- 1757-69**  
**ON STUDY OF HELMINTHOFAUNA OF DOMESTIC AND WILD CARNIVOROUS ANIMALS IN BUKHARA REGION. (RUS )**  
N M Matchanov  
*Uz Biol Zhur* 12(1):60-62  
1968 442.8 UZ1  
*Cysticercus*, Dogs, Foxes, Helminthiasis, Intestines, Parasites. English summary.
- 1758-69**  
**EXPERIMENTAL INVESTIGATION OF GOSS IMMUNITY BETWEEN TRICHINELLA SPIRALIS AND ASCARIS SUUM. (GE )**  
K Matoff P Kamhurov  
*Z Parasitenk* 29(2):130-136  
1967 442.8 Z33I  
*Ascaris lumbricoides* suum, Immunity, Mice, *Trichinella spiralis*. English abstract
- 1759-69**  
**ASSAY ON THE TREATMENT OF INTESTINAL NEMATODIASIS OF PIGS BY MEANS OF 2,2-DICHLOROVINYL DIMETHYL PHOSPHATE (DICHLORVOS, ATGARD V) ADMINISTERED WITH DRY FOOD, IN COMPARISON TO PIPERAZINE DIHYDROCHLORIDE ADMINISTERED IN DRINKING WATER. (POR )**  
M de F M Mendes U F Rocha C A da Rocha R G Serra M S de Campos Et Al  
*Sao Paulo Inst Biol Arq* 34(1(JAN-MAR):17-27 REF  
Mar 1967 442.9 SA6  
Dichlorvos, Drug therapy, Feed additives, Nematodiasis, Piperazine, Swine. English abstract.
- 1760-69**  
**RECOMMENDATIONS OF THE SYMPOSIUM PANEL: TREATMENT AND PREVENTION OF HEARTWORM DISEASE IN DOGS.**  
J T Mercer  
*Amer Vet Med Ass J* 154(4):397  
15 Feb 1969 41.8 AM3  
Diethylcarbamazine, *Dirofilaria immitis*, Dithiazanine iodide, Dogs, Dosage, Drug therapy, Preventive medicine, Thiacetarsamide.
- 1761-69**  
**ECOLOGICAL FACTORS WHICH DETERMINE THE WILD TYPE OF TRICHINIASIS WEST OF SAN LUIS AND EAST OF MENDOZA. (SP )**  
J L Minoprio H Abdon D Abdon  
*Soc Cien Argentine An* 183(1-2(JAN-FEB):19-30 MAP REF  
Feb 1967 516 SO1  
Epidemiology, *Trichinella spiralis*, Weather, Wildlife. English abstract
- 1762-69**  
**LABORATORY EVALUATION OF THE HEARTWORM-INFECTED PATIENT.**  
H C Morgan  
*Amer Vet Med Ass J* 154(4):378-380  
15 Feb 1969 41.8 AM3  
Biochemistry, *Dirofilaria immitis*, Dogs, Parasitic nematodes, Serological tests, Urine.
- 1763-69**  
**ELECTROCARDIOGRAM OF THE PATIENT WITH HEARTWORM DISEASE.**  
H C Morgan  
*Amer Vet Med Ass J* 154(4):373-374  
15 Feb 1969 41.8 AM3  
Diagnosis, *Dirofilaria immitis*, Dogs, Electrocardiograms.
- 1764-69**  
**ON THE SYNONYMY OF THE GENUS ARTYFECINOSTOMUM LANE, 1915 (TREMATODA: ECHINOSTOMATIDAE).**  
R P Mukherjee R K Ghosh  
*Ind Acad Sci Proc* 68(1):52-58 REF  
Jul 1968 513 IN25B  
Host relationships, Taxonomy, Trematoda.
- 1765-69**  
**PATHOLOGY OF HEARTWORM DISEASE.**  
G F Otto R F Jackson  
*Amer Vet Med Ass J* 154(4):382  
15 Feb 1969 41.8 AM3  
Animal histology, *Dirofilaria immitis*, Dogs, Heart, Liver, Lungs, Parasitic nematodes, Pathology.
- 1766-69**  
**THE IMMUNE PHENOMENON.**  
G F Otto  
*Amer Vet Med Ass J* 154(4):386-387  
15 Feb 1969 41.8 AM3  
*Dirofilaria immitis*, Dogs, Immunity, Parasitic nematodes, Vaccines.
- 1767-69**  
**GEOGRAPHICAL DISTRIBUTION, VECTORS, AND LIFE CYCLE OF DIROFILARIA IMMITIS.**  
G F Otto  
*Amer Vet Med Ass J* 154(4):370-373  
15 Feb 1969 41.8 AM3  
Animal disease transmission, Culicidae, *Dirofilaria immitis*, Dogs, Heart, Insect vectors, Life cycle, Zoogeography.
- 1768-69**  
**CESTODES OF VERTEBRATES XI. (SP )**  
N M Palacios L F Barroeta  
*Rev Iberica Parasitol* 27(1-2(JAN-JUN):43-62 REF  
Jun 1967 436.8 R32  
Cestoda, Fish, Frogs, Taxonomy. English abstract
- 1769-69**  
**OBSERVATION OF THE MIGRANT LARVA OF TRICHINELLA SPIRALIS IN THE CAPILLARY BLOOD. (SP )**  
J M Rivera-Pomar D Ribas-Mujal  
*Rev Iberica Parasitol* 27(1-2(JAN-JUN):39-42  
Jun 1967 436.8 R32  
Capillaries, Electron microscopy, Rats, *Trichinella spiralis*. English abstract
- 1770-69**  
**ASSAY OF TETRAMIZOLE, ORALLY AND SUBCUTANEOUSLY, FOR TREATMENT OF GASTRO-INTESTINAL NEMATODIASIS OF SHEEP. (POR )**  
U F Rocha R G Serra C A da Rocha M de Fm Mendes M S de Campos Et Al  
*Bol Indus Anim* 24(1):111-120  
1967 49 R324  
Biological assay, Chemical control (nematodes), Nematodiasis, Sheep, Tetramisole. English abstract
- 1771-69**  
**THE RESIDUAL ACTIVITY OF DISOPHENOL IN THE TREATMENT OF NEMATODIASIS OF OVINE AND BOVINE. (POR )**  
U F Rocha R G Serra M De F M Mendes C A da Rocha M S de Campos Et Al  
*Bol Indus Anim* 24(1):105-110 REF  
1967 49 R324  
Cattle, Chemical control (nematodes), Disophenol, Nematodiasis, Sheep. English abstract
- 1772-69**  
**CELL AND HUMORAL FACTORS OF IMMUNITY IN METASTRONGYLIASIS OF SWINE. (RUS )**  
V I Tionov  
*Helminthologia* 7(1/4):261-271  
1966 436.8 H36  
Cells, Immunity, Immunology, *Metastrongylus*, Morphology, Nematodes, Swine. English and German summaries.
- 1773-69**  
**REDESCRIPTION OF TAENIA SOLIUM LINNAEUS, 1758 AND TAENIA SAGINATA GOEZE, 1782.**  
A Verster  
*Z Parasitenk* 29(4):313-328 REF  
1967 442.8 Z33F  
Animals, *Taenia saginata*, *Taenia solium*, Taxonomy, Zoogeography.
- 1774-69**  
**INFECTION EXPERIMENTS WITH THE FILARIA OF THE COTTON RAT, LITOMOSOIDES CARINII CHANDLER 1931 (FILARIIDAE) IN INADEQUATE HOSTS. (GE )**  
P Wenk L Heimhurger  
*Z Parasitenk* 29(3):282-298  
1967 442.8 Z33F  
Blood parasites, Filariasis, Microfilariae, Rats. English abstract
- 1775-69**  
**A STUDY ON TOXICITY OF PYRIMETHAMINE FOR CHICKS. (JA )**  
K Yasuda S Isogai K Suzuki M Homma  
*Jap J Vet Sci* 30(4):241-250, REF  
Aug 1968 41.8 J27  
Anemia, Chicks, Leucoerythrocytosis, Poultry diseases, Pyrimethamine, Toxicology.

1750-69

## COMMODITY PROTECTION

1776-69

FOOD ADDITIVES PERMITTED IN FEED AND DRINKING WATER OF ANIMALS OR FOR THE TREATMENT OF FOOD-PRODUCING ANIMALS. CALCIUM PERIODATE.

R E Duggan

*Fed Regist* 33(249,PT 1):19172

24 Dec 1968 L1.451

Animals, Calcium, Feed, Food, Food additives, Humans, Iodine, Legislation, Periodates, Sodium chloride, Water.

## STORAGE DISEASES

1777-69

THE HEAT RESISTANCE OF SALMONELLAE IN EGG ALBUMEN.

J E L. Corry E M Barnes

*Brit Poultry Sci* 9(3):253-260 REF

Jul 1968 47.8 B77

Bacteria, Egg whites, Heat, Hydrogen-ion concentration, Salmonella, Salmonella senftenberg, Salmonella typhimurium, Storage, Temperature.

## ARTHROPODS

1778-69

INFESTATION DENSITY OF TRYPODENDRON LINEATUM (OLIVIER) (COLEOPTERA: SCOLYTIDAE) IN RELATION TO FELLING DATE OF LOGS.

E Christiansen T Saether

*Norsk Entomol Tidsskr* 15(1):28-30 REF

1968 421 N812

Demography, Insect outbreaks, *Picea abies*, Scolytidae.

The population density of *Trypodendron lineatum* in *Picea abies* logs felled between October and June in Norway is discussed. The beetle infestation was greatest in logs felled in October through March.

1779-69

SILVERFISH: A TASTE FOR PAPER.

S Rachesky

*Pest Contr* 37(1):32

Jan 1969 449.8 EX8

DDT, Insect biology, Insect control, *Lepisma saccharina*, Life cycle, Paper.

The life cycle, food habits and ecology of the silverfish, *Lepisma saccharina*, are discussed. Chemical control with DDT is suggested.

1780-69

COCKROACH INSECTICIDES--HOW REPELLENT ARE THEY.

B J Smittle G S Burden W A Banks

*Pest Contr* 36(11):9-10

Nov 1968 449.8 EX8

*Blattella germanica*, Chlordane, Diazinon, Insect repellents, Insecticides, Isopropoxyphenyl methylcarbamate, o-, Malathion, Ronnel.

## ENVIRONMENTAL CONTAMINATION

1781-69

WATER POLLUTION. 2ND EDITION. (FR )

R Colas

126P REF PARIS, FRANCE, PRESSES UNIVERSITAIRES DE FRANCE

1968 TD420.C6

Economics, Legislation, Organizations, Vocabulary, Water pollution, Water treatment.

1782-69

MERCURY WHICH POISONS THE ENVIRONMENT IN SWEDEN. (SW )

A G Johnels C Edelfstam M Olsson T Westermark

*Fauna Flora (Uppsala)* 63(5):172-185 REF

Dec 1968 442.8 F27

Aquatic birds, Aquatic insects, Aquatic plants, Fish, Food contamination, Mercury, Poisons, Soil contamination, Water pollution.

1783-69

EFFECTS OF PESTICIDES ON WILDLIFE.

N W Moore

*Roy Soc Proc Ser B, Biol Sci* 167(1007):128-133 REF

21 Feb 1967 501 L84B

Chlorinated hydrocarbons, DDT, Ecology, Insecticide residues, Wildlife.

1784-69

WILL THE USE OF 2,4,5-T TO CONTROL STREAMSIDE VEGETATION CONTAMINATE PUBLIC WATER SUPPLIES.

I C Reigner W E Sopper R R Johnson

*J Forest* 66(12):914-918 REF

Dec 1968 99.8 F768

Chemical control (weeds), Herbicide residues, Spraying, T, 2,4,5-, Water pollution, Weed control.

1785-69

PENETRATION AND ACCUMULATION OF FENURON IN FOREST SOILS.

R D Shipman

*J Forest* 66(12):910-912

Dec 1968 99.8 F768

Biological assay, Fenuron, Forest soils, Herbicide residues, Indicator plants, Soil series.

## RESIDUES

1786-69

GALVESTON BAY PESTICIDE STUDY--WATER AND OYSTER SAMPLES ANALYZED FOR PESTICIDE RESIDUES FOLLOWING MOSQUITO CONTROL PROGRAM.

V L Casper

*Pest Mont J* 1(3):13-15 MAP

Dec 1967 SB951.A1P41

Chemical control (insects), Chromatography, Culiidae, Oysters, Pesticide application, Pesticide residues, Quantitative analysis, Shellfish, Water pollution.

1787-69

RESIDUAL ACTIVITY OF BENZENE HEXACHLORIDE FORMULATIONS ON THE BOVINE COAT.

R Cwilich A Hadani Y Rechav

*J Econ Entomol* 62(1):1-4 REF

17 Feb 1969 421 J822

Benzene hexachloride, Biological assay, Cattle, Chemical control (pests), Hides, Insect repellents, Insecticide application, Insecticide residues.

1788-69

RESIDUES IN FOOD AND FEED. PESTICIDE RESIDUES IN TOTAL DIET SAMPLES (II).

R E Duggan H C Barry L Y Johnson

*Pest Mont J* 1(2):2-12

Sep 1967 SB951.A1P41

Chromatography, Diet, Feed, Food, Food analysis, Organic compounds, Pesticide residues, Quantitative analysis, Research.

1789-69

FOOD ADDITIVES PERMITTED IN FEED AND DRINKING WATER OF ANIMALS OR FOR THE TREATMENT OF FOOD-PRODUCING ANIMALS. DIMETHOATE.

R E Duggan

*Fed Regist* 33(249,PT 1):19171

24 Dec 1968 L1.451

Animals, Dimethoate, Feed, Food additives, Insecticides, Legislation, Lemons, Oranges, Pesticide residues, Water.

1790-69

TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. DIMETHOATE.

J K Kirk

*Fed Regist* 34(5):252

08 Jan 1969 L1.451

Chemicals, Dimethoate, Insecticides, Legislation, Melons, Pesticide residues, Potatoes, Tolerances, Watermelons.

1791-69

NOTICE OF AMENDED FILING OF PETITION REGARDING PESTICIDE CHEMICALS.

J K Kirk

*Fed Regist* 33(251):19860

27 Dec 1968 L1.451

Agricultural products, Chemicals, Fungicides, Fungus diseases (plants), Legislation, Pentachloronitrobenzene, Pesticide residues, Tolerances.

1792-69

TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. 2-CHLORO-1- (2,4,5-TRICHLOROPHENYL) VINYL DIMETHYL PHOSPHATE.

J K Kirk

*Fed Regist* 34(5):252

08 Jan 1969 L1.451

Apples, Chemicals, Chloro-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate, 2-, Insecticides, Legislation, Pesticide residues, Tolerances.

1793-69

TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. 3-(P-BROMOPHENYL)-1-METHOXY-1-METHYLUREA.

J K Kirk

*Fed Regist* 33(251):19801

27 Dec 1968 L1.451

Bromophenyl)-1-methoxy-1-methylurea, 3-(p-, Chemicals, Herbicides, Legislation, Pesticide residues, Potatoes, Tolerances.

1794-69

TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. ATRAZINE.

J K Kirk

*Fed Regist* 33(251):19800-19801

27 Dec 1968 L1.451

Atrazine, Chemicals, Herbicides, Legislation, Meat, Milk, Pesticide residues, Tolerances, Wheat.

1795-69

TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. SIMAZINE.

J K Kirk

*Fed Regist* 33(251):19800

27 Dec 1968 L1.451

Agricultural products, Chemicals, Herbicides, Legislation, Pesticide residues, Simazine, Tolerances.

1796-69

PESTICIDES: PRESENT LEVELS IN FOOD AND POSSIBLE SOURCES OF CONTAMINATION.

D T Lewis

*Roy Soc Proc Ser B, Biol Sci* 167(1007):89-100 REF

21 Feb 1967 501 L84B

Aldrin, Chlorinated hydrocarbons, Dieldrin, DDT, Food contamination, Insecticide residues, Lindane, Tolerances.

1797-69

CHLORINATED HYDROCARBON PESTICIDE RESIDUES IN OR ON ALFALFA GROWN IN



**SOIL WITH A PREVIOUS HISTORY OF ALDRIN AND HEPTACHLOR APPLICATION.**

R J Moubry G R Myrdal H P Jensen

*Pest Mont J* 1(2):13-14

Sep 1967 SB951.A1P41

Aldrin, Alfalfa, Chlorinated hydrocarbons, Chromatography, Heptachlor, Insecticide application, Insecticides, Pesticide residues, Soil analysis, Soil contamination.

1798-69

**STEMPHONE, A BIOLOGICALLY ACTIVE YELLOW PIGMENT PRODUCED BY STEMPHYLIUM SARCINAEFORME (CAU.) WILTSHIRE.**

P M Scott J W Lawrence

*Can J Microbiol* 14(9):1015-1016

Sep 1968 448.8 C162

Biological assay, Chick embryos, Fungicides, Pigments, Quinones, Stemphylium sarcinaeforme, Toxicology.

**TOXICOLOGY**

1799-69

**DETERMINATION OF AN ACTIVITY THRESHOLD WITH THE HELP OF STATISTICAL METHODS. (TU)**

M S Akman K Ozan

*Ankara Univ Vet Fak Dergisi* 15(1):41-45

1968 41.9 AN4D

Biological assay, Chemical analysis, Dosage, Drugs, Methodology, Statistical methods. French abstract

1800-69

**DDT TOXICITY IN RYE (SECALE SPP.).**

J M Jones J D Hayes

*Plant Pathol* 16(3):139-141

Sep 1967 464.8 P692

DDT, Immunity, Plant biochemistry, Plant breeding, Plant genetics, Plant injuries, Plant protection, Rye, Toxicology.

1801-69

**PARAQUAT POISONING TREATED BY FORCED DIURESIS.**

F Kerr A R Patel P D R Scott S L Tompsett

*Brit Med J* 3(5613):290-291 REF

03 Aug 1968 448.8 B77

Diquat, Diuresis, Herbicides, Paraquat, Poisoning, Serum, Toxicity, Urine.

1802-69

**METHYLMERCURIC POISONING. (SW)**

N E Landell

*Fauna Flora (Uppsala)* 63(5):199-205

Dec 1968 442.8 F27

Human diseases, Mercury, Poisoning.

1803-69

**PARAQUAT POISONING, LUNG TRANSPLANTATION.**

H Matthew A Logan M F A Woodruff B Heard

*Brit Med J* 3(5621):759-763 REF

28 Sep 1968 448.8 B77

Herbicides, Labeling, Lungs, Paraquat, Poisoning, Public health, Respiratory diseases, Toxins.

1804-69

**RECOVERY FROM PARAQUAT POISONING.**

W I McKean

*Brit Med J* 3(5613):292

03 Aug 1968 448.8 B77

Hemorrhage, Herbicides, Microscopy, Paraquat, Poisoning, Toxins.

1805-69

**PESTICIDE SAFETY: PLAIN OL' GOOD JUDGMENT.**

S Rachesky

*Pest Contr* 37(1):9-10,12

Jan 1969 449.8 EX8

Accident prevention, Arsenic compounds, Chemicals, Pesticides.

Symptoms of pesticidal poisoning in man and related toxicological factors are described. USDA labeling requirements for pesticide packaging are also provided.

1806-69

**NOTEWORTHY POISONS WHICH ARE PESTICIDES. (SW)**

U Swaren

*Fauna Flora (Uppsala)* 63(5):206-209

Dec 1968 442.8 F27

Chlorinated hydrocarbons, DDT, Insecticides, Pesticides, Poisons.

1807-69

**CHILDHOOD POISONING ACCIDENTS.**

H L Verhulst J J Crotty

*Jama (J Amer Med Ass)* 203(12):1049-1050

18 Mar 1968 448.9 AM37

Accident prevention, Accidents, Children, Pesticides, Poisoning, Surveys, Toxicity.

**PLANT PHYSIOLOGY & BIOCHEMISTRY**

1808-69

**INCREASING THE YIELD OF DRIED FRUIT FROM THE SULTANA WITH GROWTH REGULATORS.**

A J Antcliff

*Vitis* 6(3):288-293

Aug 1967 95.8 V833

Crop yields, Grapes, Plant regulators, Spraying, Trichlorophenoxyacetic acid.

1809-69

**EFFECT OF SOIL TEMPERATURE AND NECROSIS INFECTION ON THE CONTENT OF PHENOLIC SUBSTANCES IN POTATO TUBERS. (RUS)**

T A Barskaya T Y Korenevskaya

*Fiziol Rast* 15(6 NOV-DEC):1074-1076 REF

1968 450 F58

Biochemistry, Necrosis, Phenol compounds, Plant diseases, Plant physiology, Potato-tuber, Soil temperature.

1810-69

**SOME HISTOLOGICAL EFFECTS OF 2,4,5-TRICHLOROPHENOXYACETIC ACID APPLIED TO MATURE APRICOT LEAVES.**

M V Bradley J C Crane N Marei

*Bot Gaz* 129(3):231-238

Sep 1968 450 B652

Apricots, Biochemistry, Leaves, Plant histology, Plant physiology, T, 2,4,5-.

1811-69

**EFFECT OF IRON AND MANGANESE ON ENERGY TRANSFORMATIONS IN PLANTS WITH INHIBITED CHLOROPHYLL SYNTHESIS. (RUS)**

I A Chernavina T E Krendeleva P S Sverdlova

*Fiziol Rast* 15(6 NOV-DEC):1008-1014 REF

1968 450 F58

Adenosine triphosphates, Biochemistry, Chlorophylls, Energy, Iron, Manganese, Nutrient solutions (plants), Oats, Plant physiology, Synthesis. Summary in English.

1812-69

**HYDROXYPROLINE FORMATION AND ITS RELATION TO AUXIN-INDUCED CELL ELONGATION IN THE AVENA COLEOPTILE.**

R Cleland

*Plant Physiol* 43(10):1625-1630 REF

Oct 1968 450 P692

Actinomycin d, Avena, Cell wall, Hydroxyproline, Plant physiology, Plant regulators, Sugars, Tables (data), Tissue therapy.

1813-69

**CCC AS A GROWTH REGULATOR OF SOFT WHITE WINTER WHEAT.**

W F Crosier

*Ass Off Seed Anal Proc* 56:113-115

1966 61.9 AS7

Chloroethyltrimethylammonium chloride, (2-, Fungicides, Plant regulators, Seed germination, Seed treatment, Soil contamination, Wheat.

1814-69

**EFFECT OF MOISTURE STRESS ON THE ABSORPTION AND TRANSPORT OF HERBICIDES IN WOODY PLANTS.**

F S Davis M G Merkle R W Bovey

*Bot Gaz* 129(3):183-189 REF

Sep 1968 450 B652

Absorption, Chromatography, Herbicides, Humidity, Picloram, Plant physiology, Plant translocation, T, 2,4,5-, Ulmus alata.

1815-69

**CHANGES IN ENZYMIC ACTIVITIES IN ETIOLATED BEAN SEEDLING LEAVES AFTER A BRIEF ILLUMINATION.**

B Filner A O Klein

*Plant Physiol* 43(10):1587-1596 REF

Oct 1968 450 P692

Beans, Chromoproteins, Deoxyrihonucleic acid, Enzymes, Kidney beans, Lighting, Plant physiology, Protein synthesis, Rihonucleic acid, Seedlings.

1816-69

**INDUCING ABSCISSION OF OLIVE FRUITS BY SPRAYING WITH ASCORBIC ACID AND IODOACETIC ACID.**

H T Hartmann M Fadl J Whisler

*Calif Agr* 21(7):5-7

Jul 1967 100 C12CAG

Ascorbic acid, Chemicals, Harvesting, Iodoacetic acid, Olives, Plant biochemistry, Spraying.

1817-69

**ON THE ACTION OF GIBBERELLIN ON THE CHLOROPHYLL CONTENT IN PLANTS. (RUS)**

I A Karahanov

*Fiziol Rast* 15(6 NOV-DEC):1068-1070 REF

1968 450 F58

Biochemistry, Chlorophylls, Gibberellins, Plant physiology.

1818-69

**AN INVESTIGATION OF GROWTH INHIBITORS IN DAMASK ROSE (ROSA DAMASCENA MILL.) IN CONNECTION WITH FALLING OF BUDS. (RUS)**

D Kosceva L D Prusakova

*Fiziol Rast* 15(6 NOV-DEC):967-971 REF

1968 450 F58

Chromatography, Phenol compounds, Plant biochemistry, Plant growth inhibitors, Plant physiology, Plant regulators, Quercetin, Research, Rosa damascena, Temperature. Summary in English.

1819-69

**STUDY ON THE SUCKER CONTROL OF DECAPITATED (TOPPED) TOBACCO PLANTS.**

P A Liena P C Pascual P B Leon E A Hurtado

*Philippine J Plant Indus* 31(4):297-303

1966 25 P543

Crop varieties, Flue-cured tobacco, Growth factors, Maleic hydrazide, Mineral oil, Plant growth inhibitors, Plant protection, Pruning, Tobacco.

1820-69

**FACTORS INFLUENCING GROWTH AND MORPHOLOGY OF CANDIDA ALBICANS IN A MARINE ENVIRONMENT.**

P P Madri

*Bot Mar* 11(1-4):31-35 REF

Aug 1968 450 B6582

Aquatic fungi, Candida albicans, Chlamydozoospores, Deuteromycetes, Fungi, Growth factors, Marine biology, Microscopy, Morphology, Mycelium, Temperature. French, German and Latin summaries.

1821-69

1821-69

## EFFECT OF SIMAZINE ON THE PHOTOSYNTHETIC PIGMENTS OF GREEN ALGAE. (RUS)

L. N. Paromenskaya G. N. Lyalin

*Fiziol Rast* 15(6:NOV-DEC):1002-1007 REF

1968 450 F58

Biochemistry, Carotenes, Chlorophylls, Chlorophyta, Herbicides, Photosynthesis, Pigments (plant), Plant physiology, Simazine, Violaxanthin, Xanthophyll. Summary in English.

1822-69

## INOSITOL METABOLISM IN PLANTS. VI. CONVERSION OF MYO-INOSITOL TO PHYTIC ACID IN WOLFFIELLA FLORIDANA. R. M. Roberts F. Loewus

*Plant Physiol* 43(10):1710-1716 REF

Oct 1968 450 P692

Aquatic plants, Chromatography, Inositol, Lighting, Phytic acid, Plant metabolism, Plant physiology, Sucrose.

1823-69

## EFFECTS OF HERBICIDES ON SEED GERMINATION AND EARLY SEEDLING DEVELOPMENT OF PINUS RESINOSA.

S. Sasaki T. T. Kozlowski

*Bat Gaz* 129(3):238-246 REF

Sep 1968 450 B652

Herbicides, Pinus resinosa, Plant physiology, Seed germination, Seedlings, Herbicides tested are atrazine, monuron, DCPA, NPA, CDEC, EPTC, CDAA, and 2,4-D.

1824-69

## ECOLOGICAL INVESTIGATIONS ON THE INFLUENCE OF TRIAZINE DERIVATIVE SIMAZINE (W 6658) ON SINAPIS ALBA L. (GE)

J. Schubert G. Weise

*Biol Zentralbl* 87(5,SEP-OCT):629-645 REF

Oct 1968 442.8 B523

Brassica hirta, Herbicides, Plant ecology, Plant physiology, Simazine. English abstract

1825-69

## EFFECT OF GIBBERELLIN (GA) AND MINERAL NUTRITION ON THE GROWTH AND PRODUCTIVITY OF CUCUMBER PLANTS. (RUS)

I. A. Tagmazian

*Fiziol Rast* 15(6 NOV-DEC):1089-1092

1968 450 F58

Ascorbic acid, Biochemistry, Crop varieties, Cucumbers, Dosage, Fertilizers, Gibberellins, Minerals, Photosynthesis, Plant nutrition, Plant physiology, Productivity, Sugar. English summary.

1826-69

## ANNUAL REPORT 1967.

359P REF

1967 65.9 C17

Attractants, Biology, Biophysics, Entomology, Fertility, Gibberellins, Microbiology, Physical chemistry, Physics, Sugarcane.

1827-69

## EFFECT OF METABOLIC INHIBITORS ON SYSTEMS INVOLVED IN THE GROWTH OF ELONGATING CELLS DURING ROOT FORMATION. (RUS)

R. K. Turetskaya V. I. Kefeli

*Fiziol Rast* 15(6 NOV-DEC):958-966 REF

1968 450 F58

Beans, Cells, Chloramphenicol, Dinitrobutylphenol, Indoleacetic acid, Metabolism, Plant growth inhibitors, Plant physiology, Roots, Sucrose, Wheat. English summary.

1828-69

## FOR EARLIER, LARGER BLOOMS; PRODUCING CAMELLIAS WITH VARIOUS SOLUTIONS OF GIBBERELLIC ACID.

W. F. Wilson

*La Agr* 12(1,FALL):10-11

1968 100 L939

Ammonia, Ammonium, Biochemistry, Calcium, Camellia, Dimethyl sulfoxide, Gibberellin acid, Plant physiology, Potassium gibberellate, Potassium hydroxide, Sodium bicarbonate, Sodium hydroxide.

## CHEMISTRY

1829-69

## DESIGNING SYSTEMIC INSECTICIDES.

*Agrichem West* 12(1):10,12

Jan 1969 381 AG85

Agricultural education, Bidrin, Foliage, Forest conservation, Forest insects, Hydroxy-N-methyl-cis-crotonamide dimethyl phosphate, 3-, Plant physiology, Plants, Systemic insecticides, Tree control.

1830-69

## QUANTITATIVE PAPER CHROMATOGRAPHIC ANALYSIS OF THE ORGANOPHOSPHORUS PESTICIDE VUAGT-3.

V. Batora J. Kovac M. Benusova J. Kovacicova

*J Chromatography* 35(2):277-282 REF

04 Jun 1968 475 J824

Chemistry, Chromatography, Organophosphorus compounds, Pesticides, Quantitative analysis.

1831-69

## THE EFFECT OF THE COLUMN SUPPORT MATERIAL ON THE GAS CHROMATOGRAPHIC RESOLUTION OF METHYL PARATHION, ETHYL PARATHION, ETHYL PARAOXON, MALATHION, AND MALAOXON.

A. Bevenec J. N. Ogata H. Beckman

*J Chromatography* 35(1):17-23 REF

21 May 1968 475 J824

Chemistry, Chromatography, Density, Diatomaceous earth, Malathion, Parathion.

1832-69

## PEPTIDE ANTIBIOTICS. DO THEY REPRESENT ONLY A FEW OF MANY YET UNDISCOVERED MICROBIAL PEPTIDES.

M. Bodanszky D. Perlman

*Science* 163(3865):352-358 REF

24 Jan 1969 470 SC12

Actinomycins, Agar, Animal diseases, Antibiotics, Biochemistry, Chromatography, Mice, Microorganisms, Penicillin, Peptides, Tyrothricin.

1833-69

## RIBONUCLEIC ACID SYNTHESIS AND GLUTAMATE EXCRETION IN ESCHERICHIA COLI.

P. Broda

*J Bacteriol* 96(5):1528-1534 REF

Nov 1968 448.3 J82

Bacteriology, Biochemistry, Cells, Escherichia coli, Excretion, Glutamate, Proteins, Ribonucleic acid, Synthesis.

1834-69

## ENRICHMENT OF AUXOTROPHIC MUTANTS OF ASPERGILLUS FLAVUS BY TRITIUM SUICIDE.

J. A. Donkersloot R. I. Mateles

*J Bacteriol* 96(5):1551-1555 REF

Nov 1968 448.3 J82

Aspergillus flavus, Biochemistry, Escherichia coli, Mortality, Mutation, Tritium.

1835-69

## INFECTIOUS DRUG RESISTANCE AMONG CLINICALLY ISOLATED ESCHERICHIA COLI.

A. C. Gunter T. W. Feary

*J Bacteriol* 96(5):1556-1561

Nov 1968 448.3 J82

Biochemistry, Escherichia coli, Human diseases, Immunity.

1836-69

## THIN-LAYER CHROMATOGRAPHY OF PESTICIDES AND RELATED COMPOUNDS ON FLORISIL.

D. J. Hamilton B. W. Simpson

*J Chromatography* 39(2):186-194 REF

28 Jan 1969 475 J824

Catalogs, Chemistry, Chromatography, Florisil, Pesticides.

1837-69

## STUDIES ON THE BIOCIDAL ACTIVITY OF CYANOMETHYL XANTHATES.

H. Honda

*Tokyo Univ Agr Mem* 12 1-15 REF

Mar 1968 5539 J3T6

Chemical compounds, Chemical reactions, Chemicals, Fungicides, Herbicides, Insecticides, Plant physiology, Plant regulators, Research, Tables (data), Xanthic acid compounds. There were 25 compounds prepared in the investigation.

1838-69

## INTERFERENCE FROM EXTRACTION THIMBLES IN THE GAS CHROMATOGRAPHIC ANALYSIS OF INSECTICIDES.

T. G. Lamont E. Cromartie

*J Chromatography* 39(3):325-326

11 Feb 1969 475 J824

Chlorinated hydrocarbons, Chromatography, Insecticide residues.

1839-69

## POLYAMIDE LAYER CHROMATOGRAPHY OF ORGANOPHOSPHORUS PESTICIDES.

K. Nagasawa H. Yoshidome

*J Chromatography* 39(3):282-290 REF

11 Feb 1969 475 J824

Catalogs, Chemistry, Chromatography, Organophosphorus compounds, Pesticides.

1840-69

## CHEMICAL ANALYSIS OF THE FUNGICIDAL MIXTURES OF DITHIOCARBAMATES AND COPPER. (POR)

J. R. Piedade H. Yoneda D. A. Souza

*Sao Paulo Inst Biol Arq* 35(1:JAN-MAR):23-25

Mar 1968 442.9 SA6

Copper, Dithiocarbamates, Fungicides, Quantitative analysis, Thiocarbamates. English abstract

1841-69

## CARBAMATE ESTERS OF 8-QUINOLINOLS.

S. Somasekhara D. M. Desai S. L. Mukherjee

*Cur Sci* 37(19):551-552

05 Oct 1968 475 SC123

Baetericides, Carbamates, Chemistry, Esters, Fungicides, Quinolol, 8-.

1842-69

## THIN-LAYER CHROMATOGRAPHY; RELATIVE MIGRATION DATA (RTDE) OF CHLORINATED PESTICIDES.

E. J. Thomas J. A. Burke J. H. Lawrence

*J Chromatography* 35(1):119-121

21 May 1968 475 J824

Chemistry, Chlorinated hydrocarbons, Chromatography, Pesticides.

## ENGINEERING

1843-69

## NITROGEN SUPPLY SYSTEM PREVENTS CONTAMINATION OF CHEMICALS.

*Chem Proc* 3(4:AUG-SEP):101

1968 TP1.S6

Chemicals, Equipment, Gases, Nitrogen, Purification, Storage.

1844-69

## EVALUATION OF SPRAY DEPOSITS FROM LOW VOLUME SPRAY NOZZLES.

L. E. Bode M. R. Gehhardt C. L. Day

*Mo Agr Exp Sta Res Bull* 936:43P

Mar 1968 100 M693 (3)

Equipment, Mechanization, Nozzles, Spraying



## INDUSTRY

1845-69

**MODERN R17,000 PLANT FOR PACKING INSECTICIDES.***Chem Proc 3(4,AUG-SEP):102*

1968 TP1.S6

Accident prevention, Containers, Equipment, Health, Industry, Insecticides, Methodology, Packing, Vibration.

## ECONOMICS

1846-69

**NEW DEVELOPMENTS IN PESTICIDE PACKAGING.***Farm Chem 131(9):70,72*

Sep 1968 57.8 AM3

Bags, Containers, Packing, Pesticides, Plastics, Storage.

1847-69

**A GOOD YEAR FOR PESTICIDE SALES.**

Anonymus

*Farm Chem 131(9):56-58*

Sep 1968 57.8 AM3

Agricultural economics, Cotton, DDT, Industrial management, Pesticides, Sales.

1848-69

**WHAT PESTICIDE FORMULATORS SAY ABOUT PACKAGING.**

Anonymus

*Farm Chem 131(9):62,66,68*

Sep 1968 57.8 AM3

Containers, Marketing, Packing, Pesticides, Storage injuries.

## EDUCATION

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**NORTH CAROLINA INITIATES NEMATODE ADVISORY SERVICE.**

F A Todd

*Farm Chem 131(5):62*

May 1968 57.8 AM3

Crop losses, Extension work, Plant nematodes, Plant protection, Root knot, Tobacco.

## REGULATIONS

1850-69

**BRUCELLOSIS. NOTICE OF PROPOSED RULE MAKING.**

R J Anderson

*Fed Regist 33(245,PT 1):18706-18707*

18 Dec 1968 L1.451

Agricultural legislation, Agricultural regulation, Brucellosis, Cattle, Livestock diseases.

1851-69

**VIRUSES, SERUMS, TOXINS AND ANALOGOUS PRODUCTS: ORGANISMS AND VECTORS. LABELS. MISCELLANEOUS AMENDMENTS.**

R J Anderson

*Fed Regist 34(11,PT 1):610-611*

16 Jan 1969 L1.451

Agricultural regulation, Labeling, Legislation, Serum, Toxins, Vaccines, Viruses.

1852-69

**THE NEW SEED LEGISLATION AND ITS CONSEQUENCES FOR THE PLANTING OF SEED POTATOES. (GE)**

B Arcnz

*Kartoffelbau 19(3):65-68*

Mar 1968 75.8 K145

Crop varieties, Import control, International cooperation, Legislation, Plant protection, Seed potatoes, Seeds, Virus diseases (plants).

1853-69

**THE PLANT PROTECTION LAW AS A RESPONSIBILITY FOR THE CONTROL OF PLANT PESTS AND DISEASES. (GE)**

H A Feldhus

*Kartoffelbau 19(4):99-100*

Apr 1968 75.8 K145

Legislation, Plant disease control, Plant nematodes, Plant pest control, Plant protection, Potatoes.

1854-69

**THE NEW PLANT PROTECTION LAW. (GE)**

H Fischer

*Kartoffelbau 19(4):93-94*

Apr 1968 75.8 K145

Chemical control (plant diseases), Legislation, Plant pest control, Plant protection, Potatoes.

1855-69

**THE PLANT PROTECTION LAW AND ITS RESPONSIBILITY TOWARDS HUMAN HEALTH. (GE)**

E Heidenreich

*Kartoffelbau 19(4):98-99*

Apr 1968 75.8 K145

Biological control (weeds), Chemical control (plant diseases), Dosage, Legislation, Plant protection, Public health, Residues, Toxicity.

1856-69

**THE PLANT PROTECTION LAW AS A RESPONSIBILITY FOR THE PROTECTION OF LIVING COMMUNITIES. (GE)**

A von Horn

*Kartoffelbau 19(4):96-97*

Apr 1968 75.8 K145

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### PIPERAZINE

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